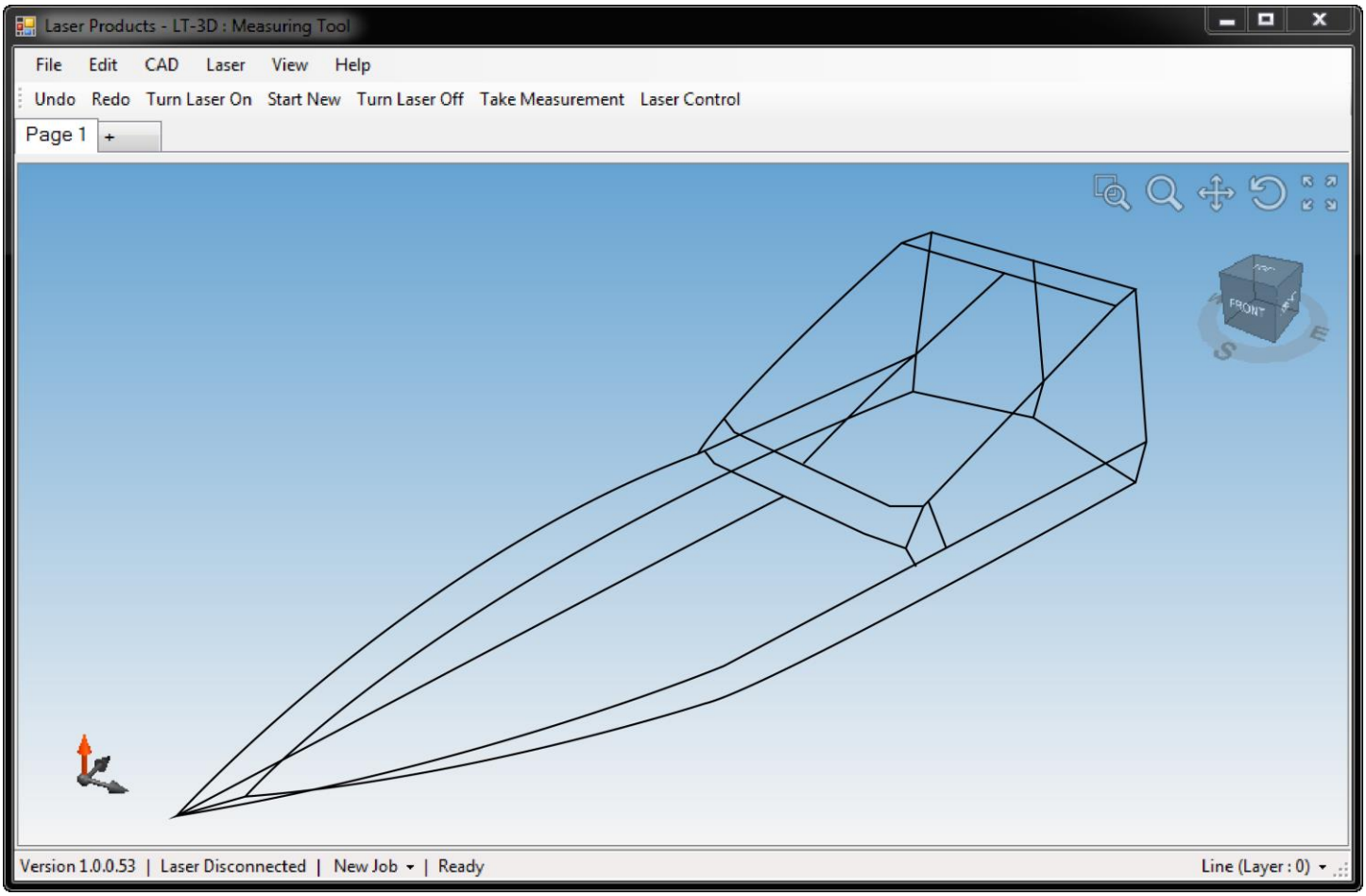
LASER PRODUCTS industries


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Page 1 +
FRONT
Version 1.0.0.53 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

LT-3D CAD / Falcon
User Manual v1.2
Edited: September 26, 2014

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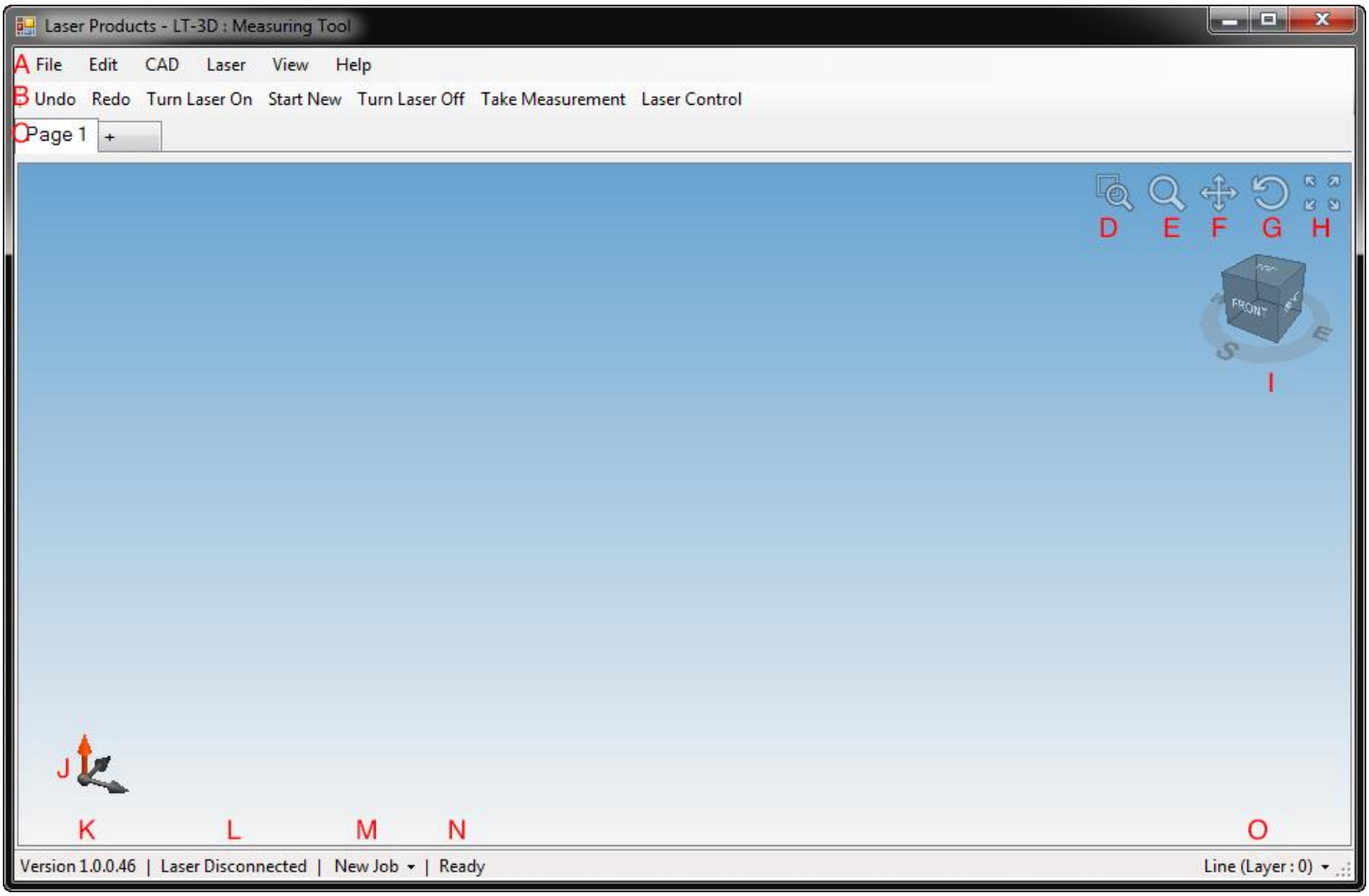
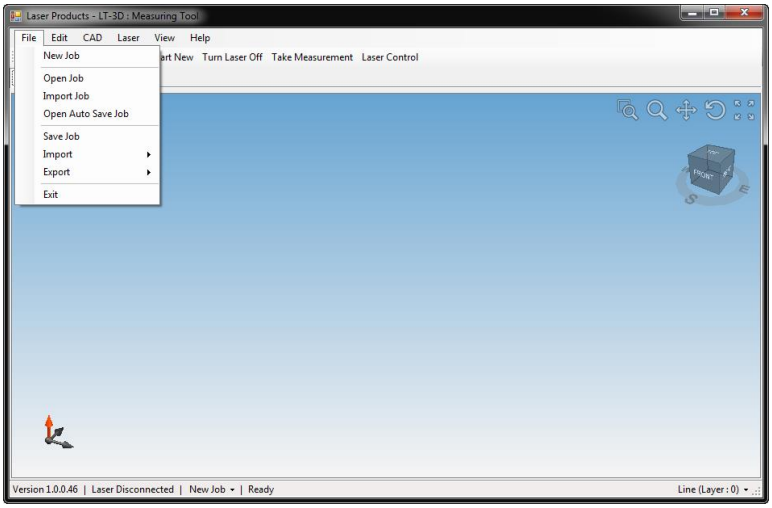
1.0 MAIN SCREEN LAYOUT


Laser Products - LT-3D : Measuring Tool
A File Edit CAD Laser View Help
B Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
C Page 1 +
D E F G H
I
J
K L M N O
Version 1.0.0.46 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

- A – File Menus
- B – Toolbar
- C – Pages (clicking plus adds new page)
- D – Zoom on box
- E – Zoom in and out
- F – Pan tool
- G – Rotate tool
- H – Zoom Fit
- I – Rotate Box
- J – Current drawing orientation
- K – Version information
- L – Laser status
- M – Job Name
- N – Status updates
- O – Drawing mode selector (Line, Arc, Circle, Point) and Selected Layer (will be colored based on Layer color)

2.0 FILE MENU

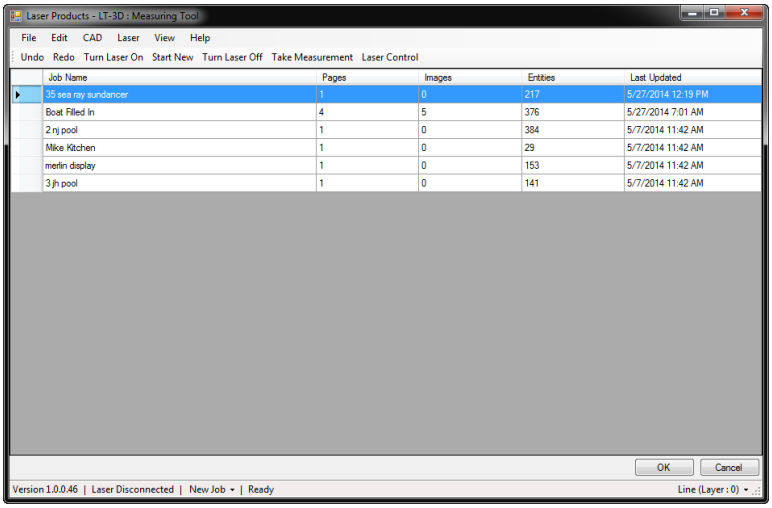


2.1 New

Clears all current job data and starts with a blank canvas.

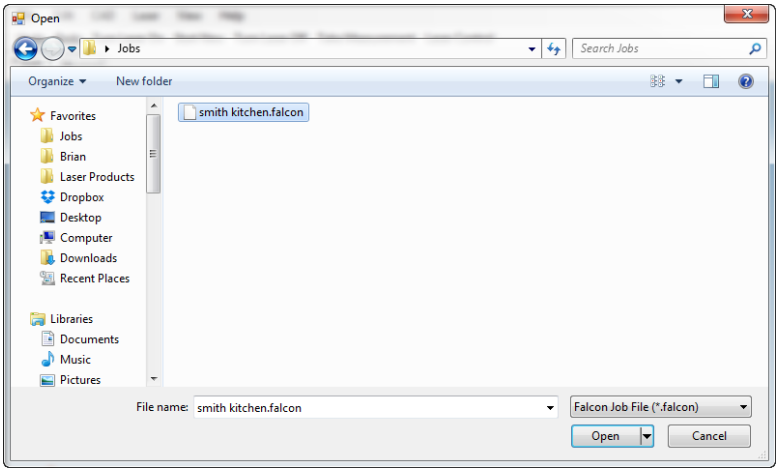
2.2 Open Job

Opens an existing saved job from the job database. Displays a list of jobs that exist in the database ordered by the last time the job was updated. There are also counts for the number of pages, images and entities (lines, arcs, circles and points) in the job.



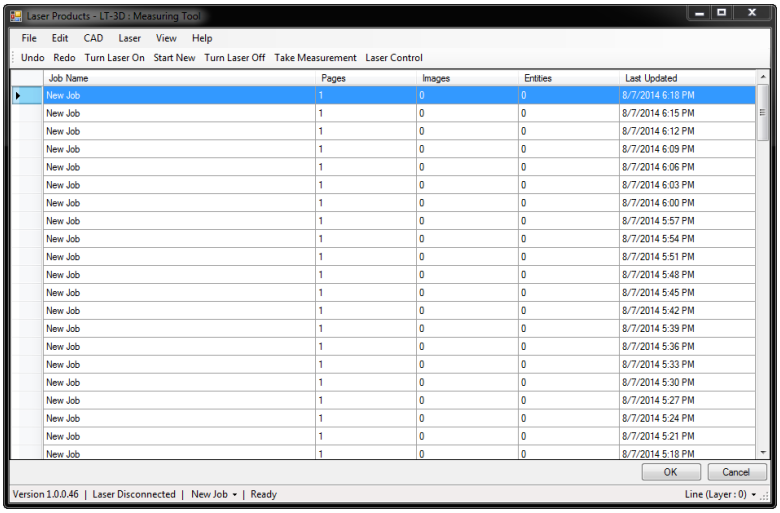
2.3 Import Job

Opens a .falcon file. This is used to transfer job data between computers.



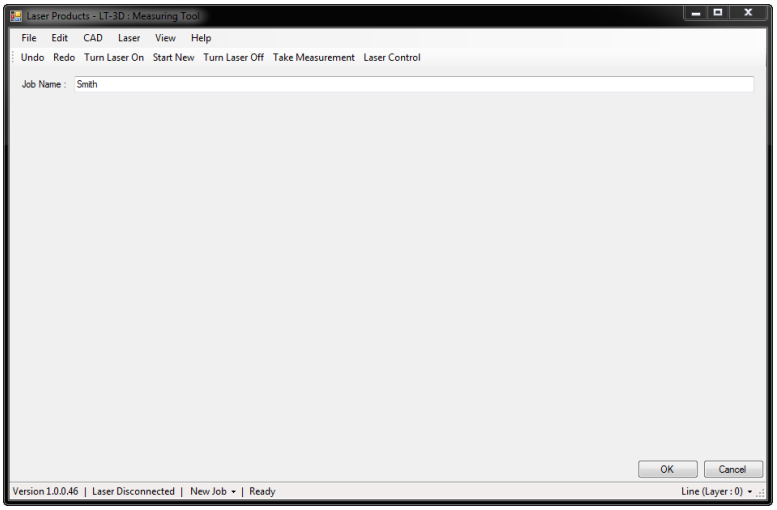
2.4 Open Auto Save Job

Similar to Open Job, this displays a list of auto saved files that can be used to recover unsaved data. Jobs are automatically saved every 3 minutes.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Job Name Pages Images Entities Last Updated
New Job 1 0 0 8/7/2014 6:18 PM
New Job 1 0 0 8/7/2014 6:15 PM
New Job 1 0 0 8/7/2014 6:12 PM
New Job 1 0 0 8/7/2014 6:09 PM
New Job 1 0 0 8/7/2014 6:06 PM
New Job 1 0 0 8/7/2014 6:03 PM
New Job 1 0 0 8/7/2014 6:00 PM
New Job 1 0 0 8/7/2014 5:57 PM
New Job 1 0 0 8/7/2014 5:54 PM
New Job 1 0 0 8/7/2014 5:51 PM
New Job 1 0 0 8/7/2014 5:48 PM
New Job 1 0 0 8/7/2014 5:45 PM
New Job 1 0 0 8/7/2014 5:42 PM
New Job 1 0 0 8/7/2014 5:39 PM
New Job 1 0 0 8/7/2014 5:36 PM
New Job 1 0 0 8/7/2014 5:33 PM
New Job 1 0 0 8/7/2014 5:30 PM
New Job 1 0 0 8/7/2014 5:27 PM
New Job 1 0 0 8/7/2014 5:24 PM
New Job 1 0 0 8/7/2014 5:21 PM
New Job 1 0 0 8/7/2014 5:18 PM
OK
Cancel
Version 1.0.0.46 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

2.5 Save Job

Allows the existing job and all associated data (pages, images, job info and layers) to be saved to the database.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Job Name : Smith
OK
Cancel
Version 1.0.0.46 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

2.6 Import

2.6.1 DWG

Opens an existing DWG file and adds to page 1.

2.6.2 DXF

Opens an existing DXF file and adds to page 1.

2.7 Export

2.7.1 DWG

Exports the current page as a DWG file. This is used to transfer to a plotter, CNC, waterjet or other fabrication machinery.

2.7.2 DXF

Exports the current page as a DXF file. This is used to transfer to a plotter, CNC, waterjet or other fabrication machinery.

2.7.3 Falcon Job

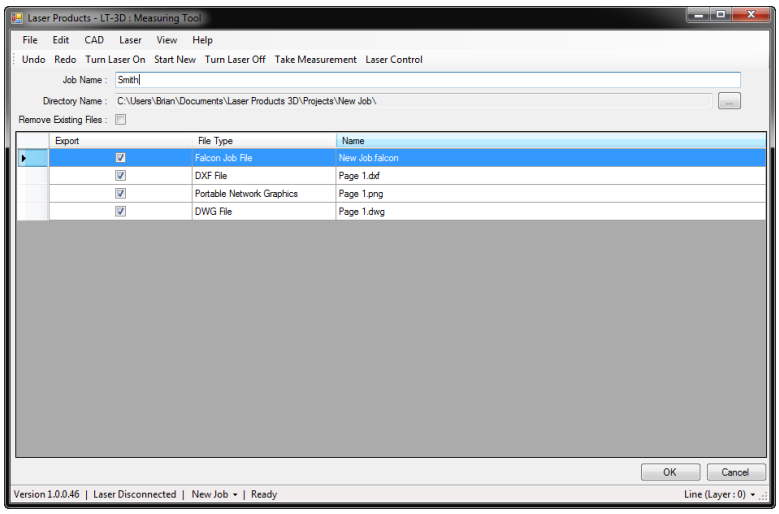
Exports the job as a .falcon file. This is used to transfer job data between computers.

2.7.4 Images

Exports the current page as a PNG (image) file. This is used for recording screenshots of the way a job looks for visual reference.

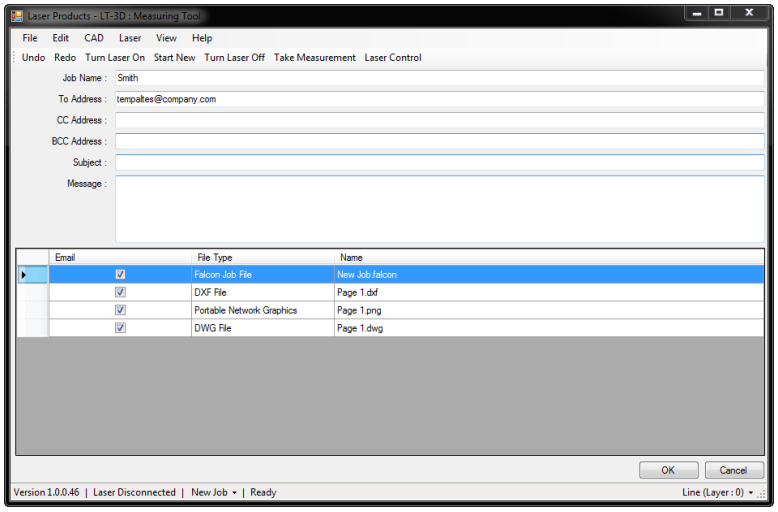
2.7.5 Export Full Job

Creates a directory and exports all data for the job. This includes a DWG, DXF and PNG file per page, a .falcon job file and any images captured via the webcam. Enter a *Job Name* and choose the directory you want to export the job to. Then press **OK**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Job Name : Smith
Directory Name : C:\Users\Brian\Documents\Laser Products 3D\Projects\New Job\
Remove Existing Files :
Export File Type Name
Falcon Job File New Job.falcon
DXF File Page 1.dxf
Portable Network Graphics Page 1.png
DWG File Page 1.dwg
OK Cancel
Version 1.0.0.46 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

2.7.6 Email Job Files

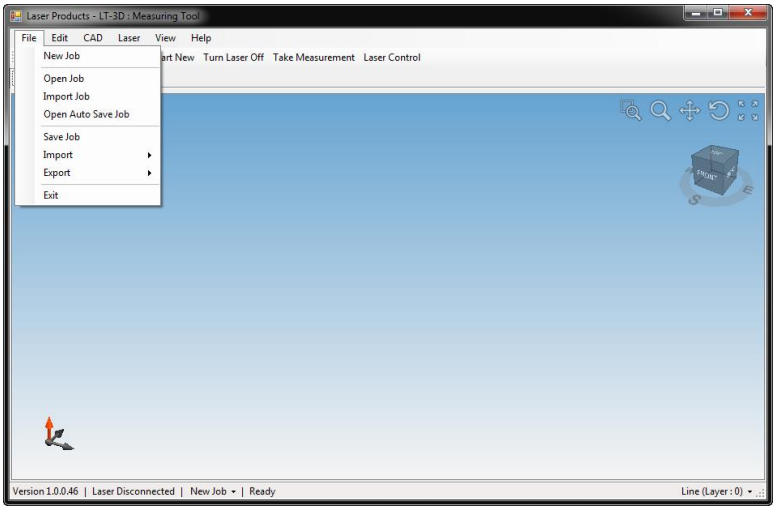
Emails all or some (user choice) *Export Full Job* files to a recipient. Enter a *To Address*, *Job Name*, *Subject*, *Message* and check the files you want sent. Then press **OK**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Job Name : Smith
To Address : tempaltes@company.com
CC Address :
BCC Address :
Subject :
Message :
Email File Type Name
Falcon Job File New Job.falcon
DXF File Page 1.dxf
Portable Network Graphics Page 1.png
DWG File Page 1.dwg
OK Cancel
Version 1.0.0.46 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

2.8 Exit

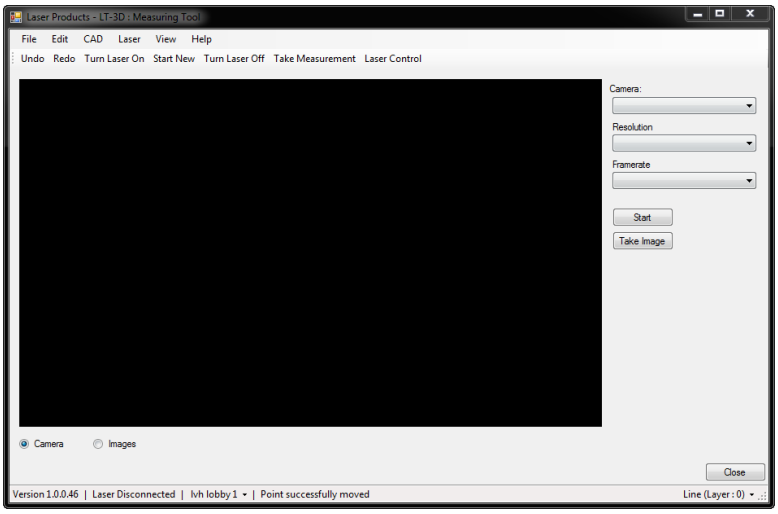
Closes the application

3.0 EDIT MENU



3.1 Job Images

Allows for capture of images that will be stored in the job from any attached webcam. These images will appear when using *Export Full Job* and *Images* and will be embedded in the .falcon file.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Camera:
Resolution
Framerate
Start
Take Image
Camera
Images
Close
Version 1.0.0.46 | Laser Disconnected | Ivh lobby 1 | Point successfully moved
Line (Layer : 0)

3.1.1 Setup

The first time you open this you will need to choose the *Camera*, *Resolution* and *Frame Rate*.

3.1.2 Taking a Picture

Press **Start**. Once you have the camera pointed at the subject you want to photograph press **Take Image** to capture it.

3.1.3 Images

Clicking the *Images* radio button will bring up a view of saved images for that job. You can add a description for each image and scroll through all captured images.

3.2 Options

Allows settings for the application to be changed.

3.2.1 General - Snap to Point Distance

When a measurement is taken the application searches through existing measurements and chooses the closest measurement that is less than this distance and will be used instead of the currently captured point from the laser. This allows for corners to be snapped together.

3.2.2 Drawing – Background Color

Changes the background color of the drawing. Supported colors are black, white, blue and none.

3.2.3 Drawing – View Box Size

Size of the *View Box* and *Menus* in the upper right corner of the drawing.

3.2.4 Drawing – Font Size

Changes the font size throughout the application.

3.2.5 Drawing – Line Width

Changes the line width displayed on the drawing to allow for easier selecting of lines, arcs and circles.

3.2.6 Export – Remove Control Points

When creating a DXF or DWG file, if this is checked, control/construction points will not be created for measured points that were taken by the laser or the snap points of the lines (end and center points), arcs (end and center points) or circles (points at 12, 3, 6 and 9 o'clock).

3.2.7 Email

If you choose to email your templated files back to your shop while you are at a jobsite, this is where you will set up your email configurations.

The email settings are standard settings so please look at your personal email account settings and copy that information over to these forms. If you are unsure of your email settings, please contact your email/website/internet provider to obtain them. There are many email providers out there; we cannot keep track of everyone's individual settings.

3.2.8 Units – Linear Unit of Measure

Allows the user to set the units of measure to use within the application.

3.2.9 Device – Laser Connection

Allows the user to select which type of laser to connect to (LT-2D3D Laser Templator or 3D Disto).

3.2.10 Advanced – Set Advanced Options

Allows for settings to be added that Laser Products can implement by unlocking features as they become available for specific industries.

3.3 Job Details

Allows for input of details pertaining to the job like names, phone numbers and addresses.

3.4 Undo

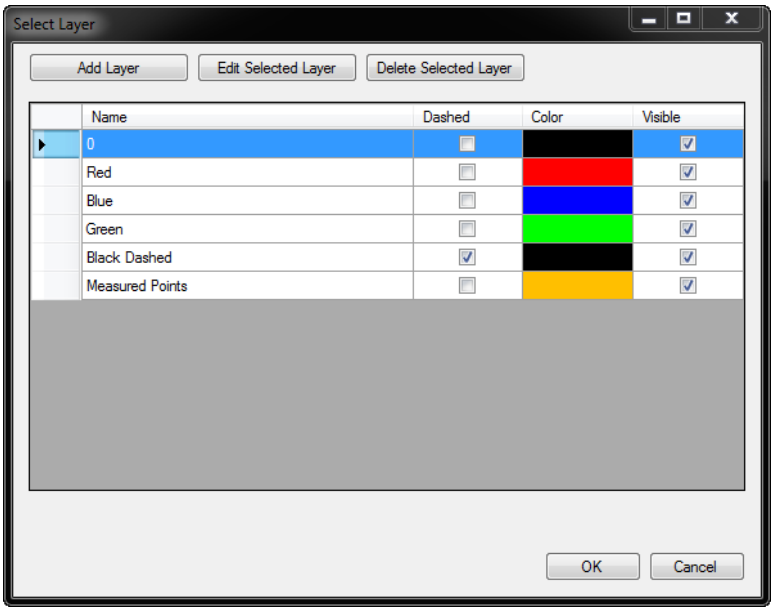
Undoes the last change to the job.

3.5 Redo

Redoes the last change to the job that was undone.

3.6 Choose Layer

Switches the layer that will be applied to new entities.



3.6.1 Add Layer

Add a new layer to this specific job.

3.6.2 Edit Layer

Allows attributes for the selected layer to be modified for this specific job only.

Name: Name of the layer (will appear in the lower right of the application when the layer is selected).
Color: The color to draw entities within that layer.
Line Type: ByLayer or ByEntitiy. This is a CAD setting that will be transferred to the DXF and DWG files.
Dashed: Determines if the lines should be drawn dashed or solid.
Visible: Determines if the layer is visible or not on the drawing.

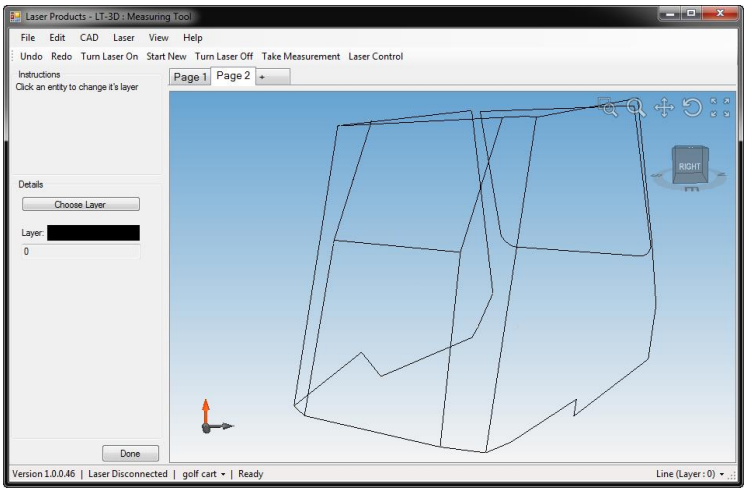
3.6.3 Delete Selected Layer

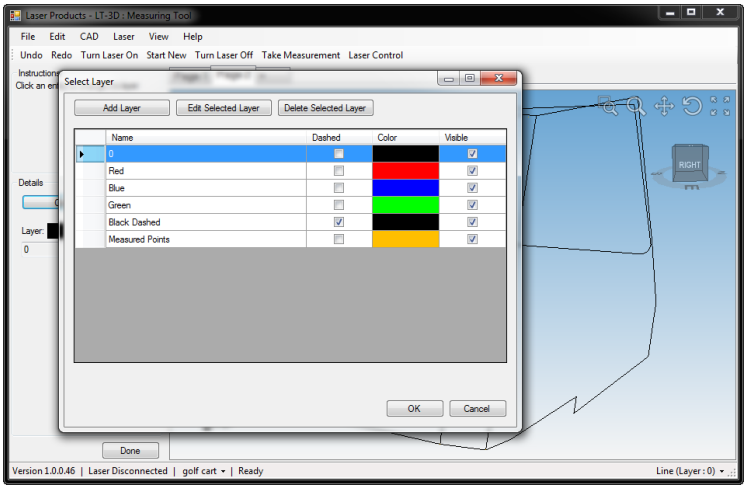
Removes the selected layer from this specific job only.

3.7 Revise Layer

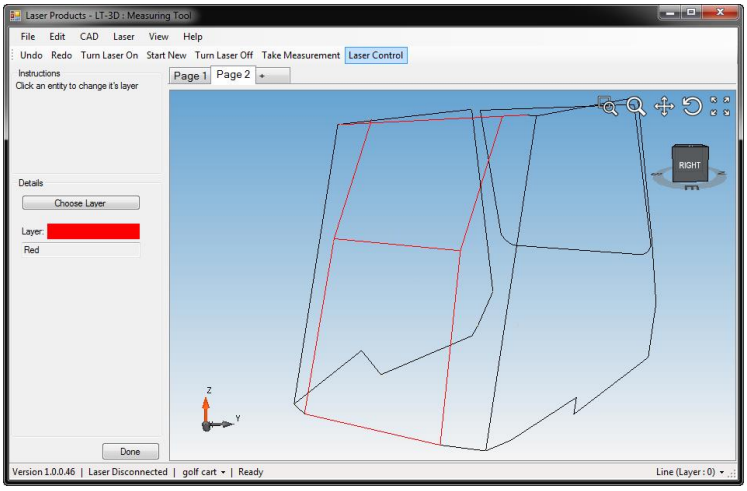
Allows existing entities to have their layer changed for this specific job only.

1. Click **Revise Layer** and **Choose Layer** you want by clicking **OK**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click an entity to change it's layer
Page 1 Page 2
Details
Choose Layer
Layer:
0
Done
RIGHT
Version 1.0.0.46 | Laser Disconnected | golf cart | Ready
Line (Layer : 0)

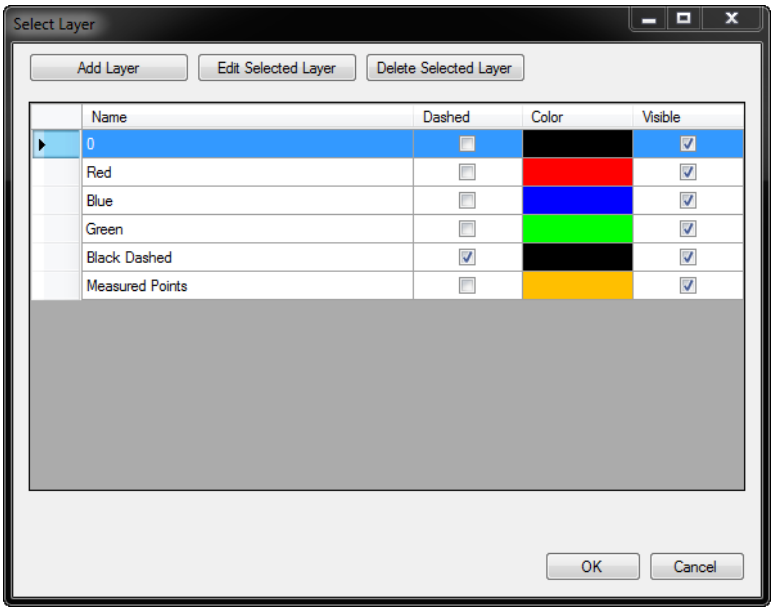


2. Click on the entities you want to change.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click an entity to change it's layer
Page 1 Page 2
Details
Choose Layer
Layer:
Red
Done
RIGHT
Version 1.0.0.46 | Laser Disconnected | golf cart | Ready
Line (Layer : 0)

3.8 Edit Default layer

Edits the list of layers that will be present when a new job is created. This will have no effect on the current layers within the job on previous jobs.



3.8.1 Add Layer

Adds a new layer.

3.8.2 Edit Layer

Allows attributes for the selected layer to be modified.

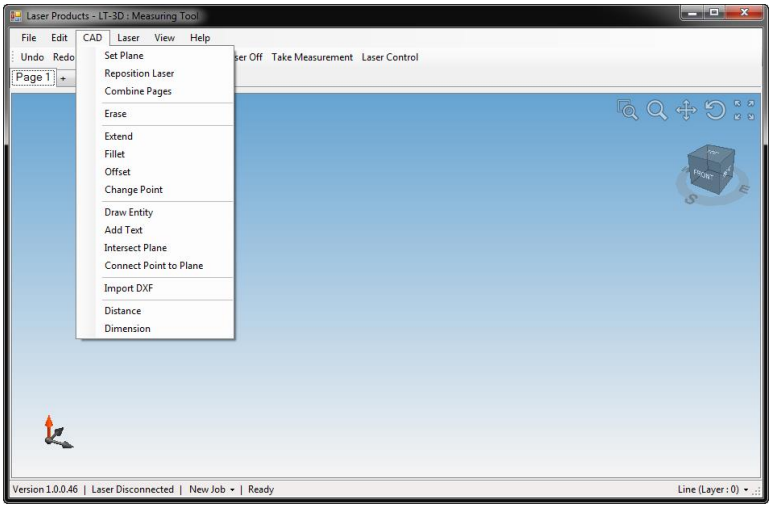
Name: Name of the layer (will appear in the lower right of the application when the layer is selected).
Color: The color to draw entities within that layer.
Line Type: ByLayer or ByEntitiy. This is a CAD setting that will be transferred to the DXF and DWG files.
Dashed: Determines if the lines should be drawn dashed or solid.
Visible: Determines if the layer is visible or not on the drawing.

3.8.3 Delete Selected Layer

Removes the selected layer.

Note: *Add Layer* and *Edit Layer* leverages the same screen as *Add Layer* and *Edit Layer* from the *Choose Layer* screen. When modifying layers here though, it will change the settings globally in the program where as If you do it in *Choose Layer*, it is only changing in that specific job.

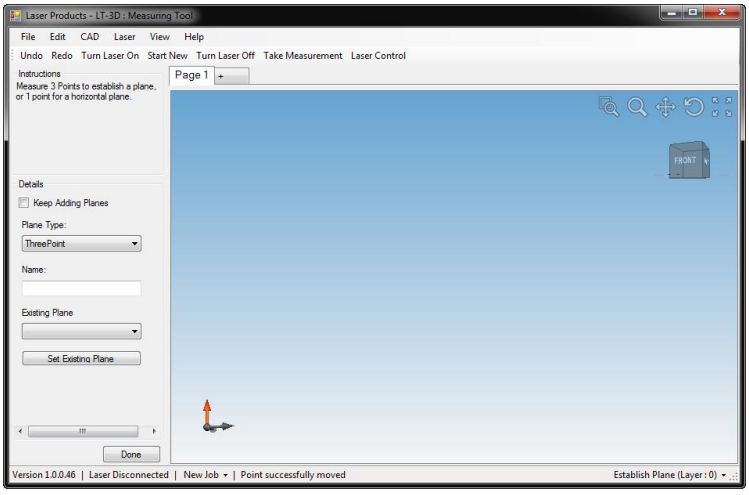
4.0 CAD MENU



4.1 Set Plane

Allows a plane(s) to be created or set active. Planes can be used to flatten points while measuring. There are several purposes to do this:

1. Capture points normalized to the plane: For example a plane can be established on a counter top and then points can be captured along the front of the existing cabinets or wall. The captured point from the laser will be then captured on the closest point on the plane (points are flattened to one surface).
2. Offset arcs and lines.
3. Create dimensions.
4. Determine points and lines from the intersections of the planes.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Measure 3 Points to establish a plane, or 1 point for a horizontal plane.
Page 1
Details
Keep Adding Planes
Plane Type:
ThreePoint
Name:
Existing Plane
Set Existing Plane
Done
Version 1.0.0.46 | Laser Disconnected | New Job | Point successfully moved
Establish Plane (Layer : 0)

4.1.1 Keep Adding Planes

Keeps the user in the *Set Plane* function so planes can be established for several walls/surfaces at the same time.

4.1.2 Plane Type – Three Point Plane

Three points are captured to create a plane. To set a *Three Point Plane*:

1. Choose **Three Point Plane** in *Plane Type*.
2. Turn the laser on and move the laser to the first point.
3. Click **Take Measurement**.
4. Move the laser to the second point.
5. Click **Take Measurement**.
6. Move the laser to the third point.
7. Click **Take Measurement**.
8. A yellow triangle will indicate a plane has been established.

4.1.3 Name

A perfectly horizontal plane will be established based on a single point. To set a *One Point Plane*:

1. Choose **One Point Plane** in *Plane Type*.
2. Turn the laser on and move the laser to the first point.
3. Click **Take Measurement**.
4. A yellow triangle will indicate a plane has been established.

4.1.4 Name

The name of the plane that will be created.

4.1.5 Existing Plane

Allows the user to switch to a previously established plane.

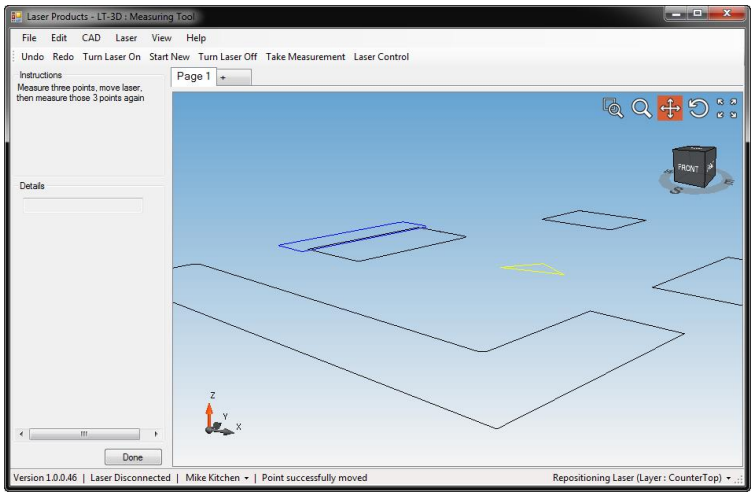
4.1.6 Set Existing Plane

Sets the current plane to the plane selected in the *Existing Plane* drop down.

4.2 Reposition Laser

Allows the user to pick up and move the laser to a new physical location and then continue capturing points. To reposition the laser:

1. Determine 3 points that can be viewed from both the current laser location and the location the laser will be moved to.
2. Click **Reposition Laser**.

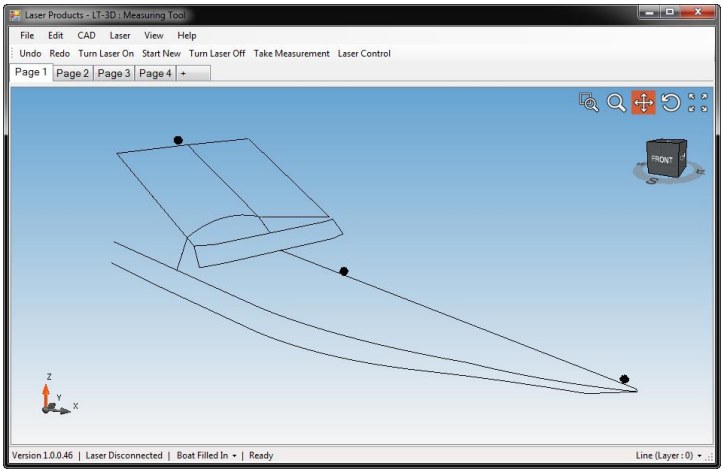

Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Measure three points, move laser, then measure those 3 points again
Page 1
Details
FRONT
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Repositioning Laser (Layer : CounterTop)

3. Turn the laser on and capture point 1, 2, and 3.
4. Pick up the laser and move it to the new location.
5. Level the laser.
6. Capture point 1, 2, and 3 in the exact same order.
7. Continue to capture points from the new location.

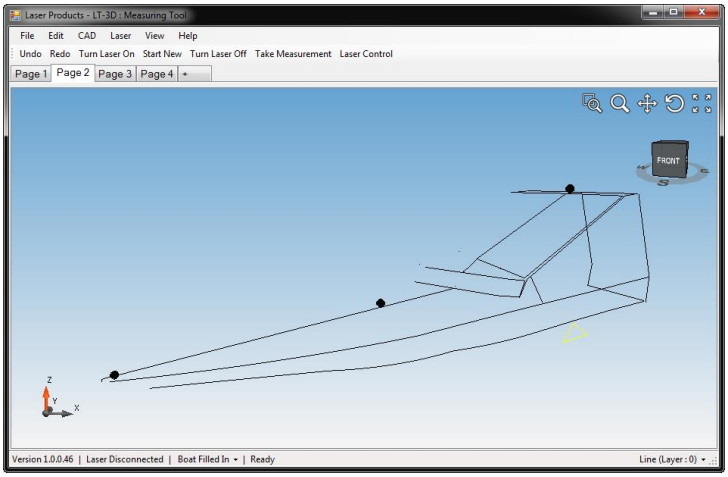
4.3 Combine Pages

Allows two pages to be combined based on three reference points that exist on each page.

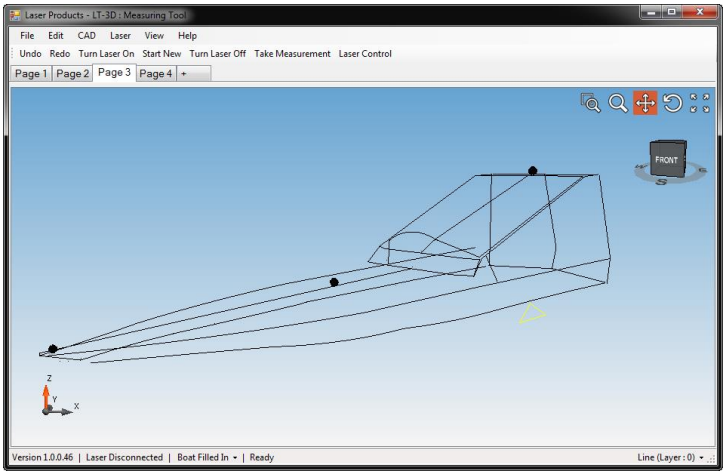
1. Go to the first page with the 3 common points.
2. Click **CAD** / **Combine Pages**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Page 1 Page 2 Page 3 Page 4
FRONT
Version 1.0.0.46 | Laser Disconnected | Boat Filled In | Ready
Line (Layer : 0)

3. Click on reference **point 1**, **2** and **3**.
4. Go to the second page with the 3 common points.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Page 1 Page 2 Page 3 Page 4
FRONT
Version 1.0.0.46 | Laser Disconnected | Boat Filled In | Ready
Line (Layer : 0)

5. Click on reference **points 1**, **2** and **3** in the same order.
6. Entities from the first page will be inserted into the second page.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Page 1 Page 2 Page 3 Page 4
FRONT
Version 1.0.0.46 | Laser Disconnected | Boat Filled In | Ready
Line (Layer : 0)

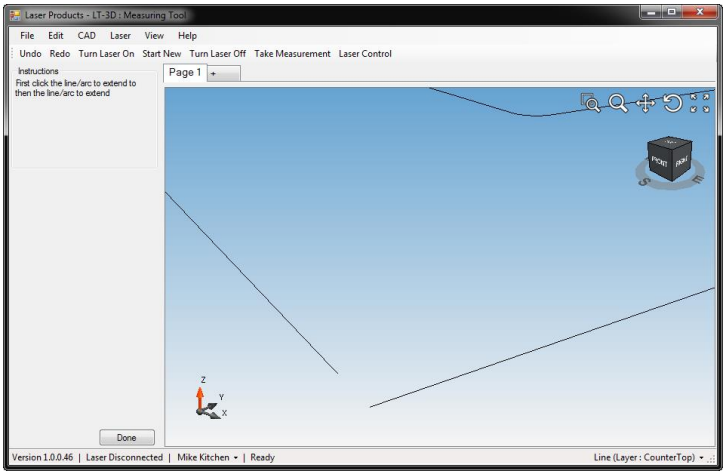
4.4 Erase

Erases an entity. Click on the entity that you wish to erase.

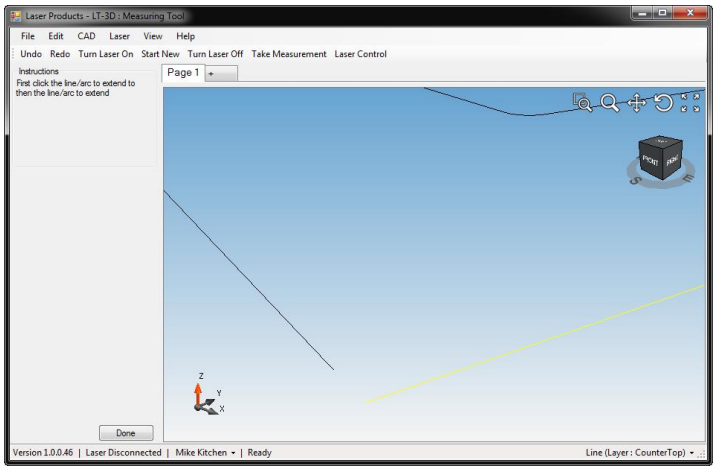
4.5 Extend

Extends a line/arc to its intersection with another line/arc. To extend:

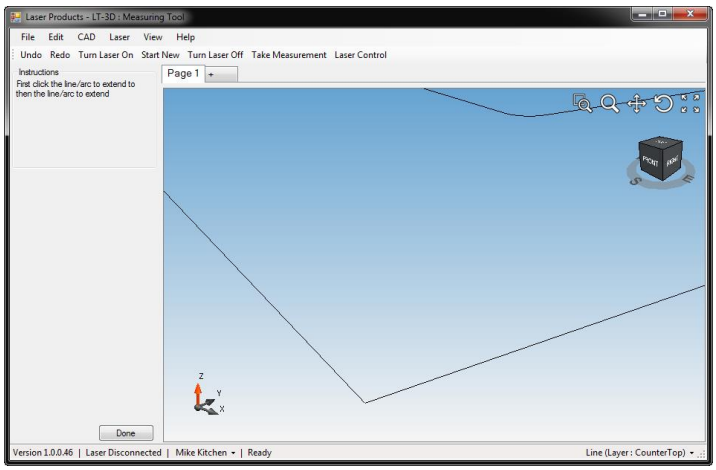
1. Click **CAD** / **Extend**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
First click the line/arc to extend to
then the line/arc to extend
Page 1
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

2. Click a line or arc to extend to.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
First click the line/arc to extend to then the line/arc to extend
Page 1
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

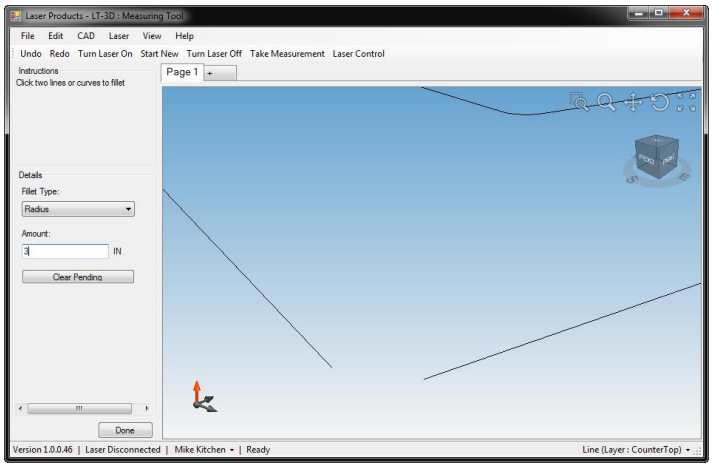
3. Click the line or arc to extend.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
First click the line/arc to extend to then the line/arc to extend
Page 1
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

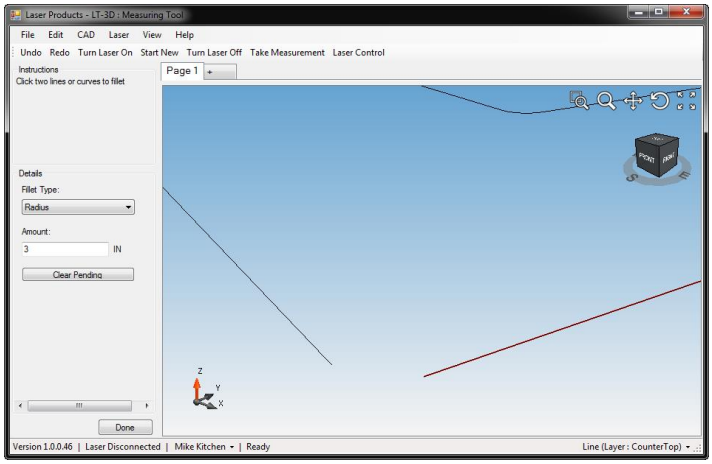
4.6 Fillet

Performs a fillet operation (sharp, chamfer or radius) between a line or arc and another line or arc. To fillet:

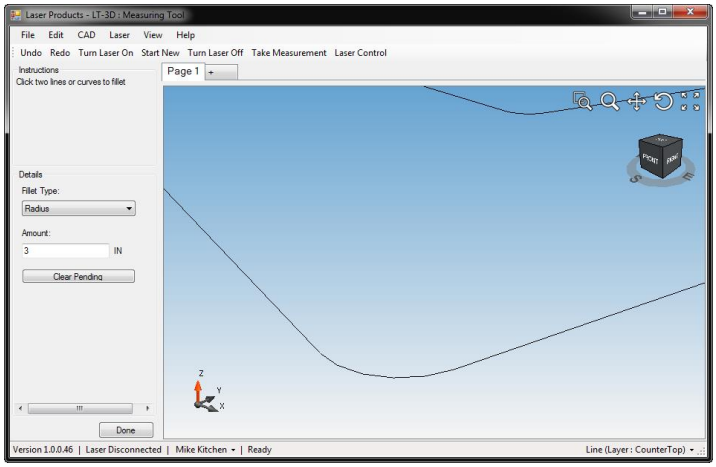
1. Click **CAD** / **Fillet**.
2. Set the *Fillet Type* (**Radius**, **Chamfer** or **Sharp**) along with the **Amount**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click two lines or curves to fillet
Page 1
Details
Fillet Type:
Radius
Amount:
IN
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

3. Click the first line or arc to fillet.



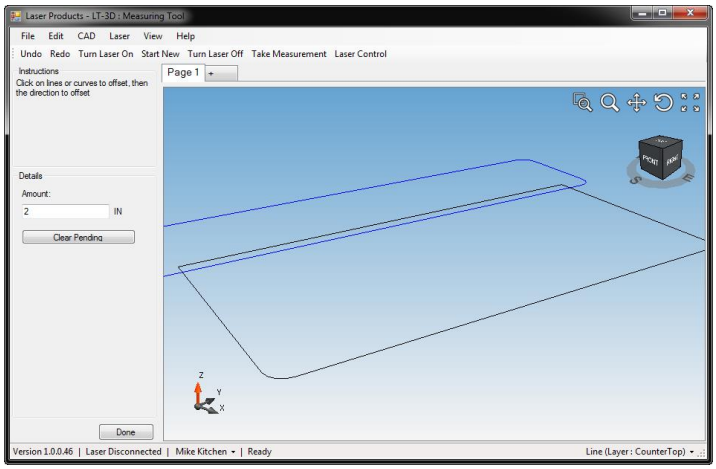
4. Click the second line or arc to fillet.



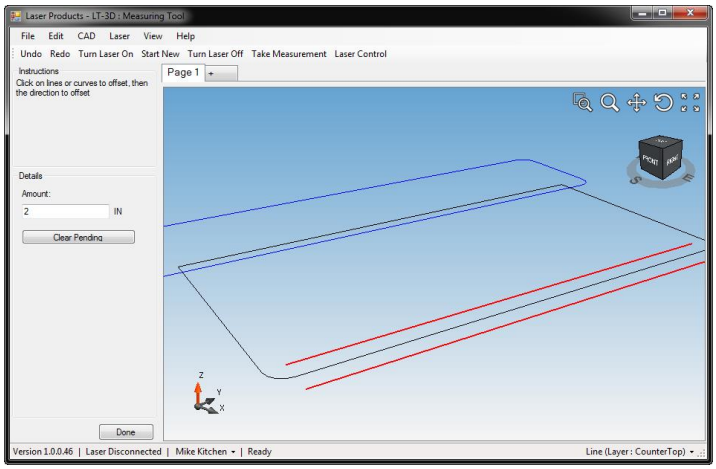
4.7 Offset

Offsets a line or arc along a plane. A plane must be established before *Offset* can be used. To offset:

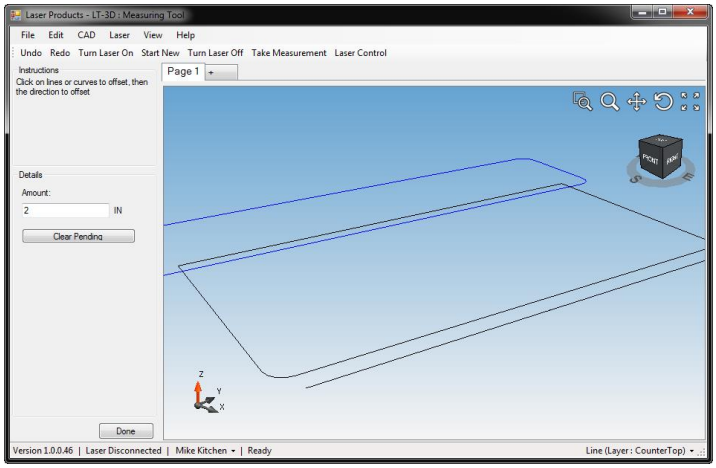
1. Click **CAD** / **Offset**.
2. Choose the *Amount* to offset.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on lines or curves to offset, then the direction to offset
Page 1
Details
Amount:
2
IN
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

3. Click a line or arc.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on lines or curves to offset, then the direction to offset
Page 1
Details
Amount:
2
IN
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

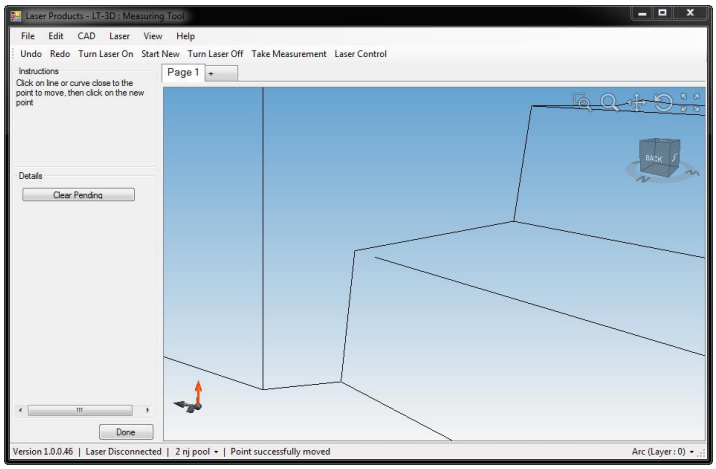
4. Click on the offset that you wish to perform.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on lines or curves to offset, then the direction to offset
Page 1
Details
Amount:
2
IN
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Ready
Line (Layer : CounterTop)

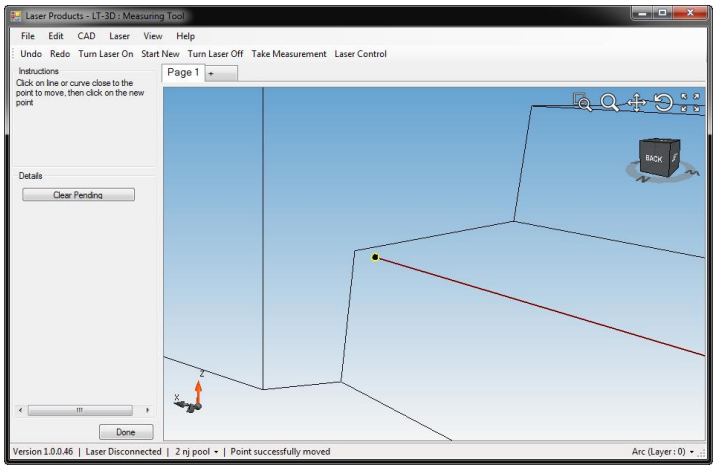
4.8 Change Point

Allows the end point of an arc or line to be snapped to a different existing point. To change a point:

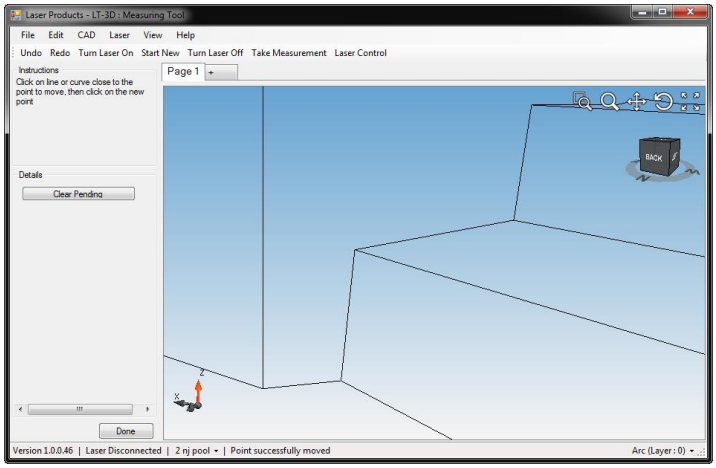
1. Click **CAD** / **Change Point**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on line or curve close to the point to move, then click on the new point
Page 1
Details
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

2. Click on the line or arc close to the end point that you want to move.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on line or curve close to the point to move, then click on the new point
Page 1
Details
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

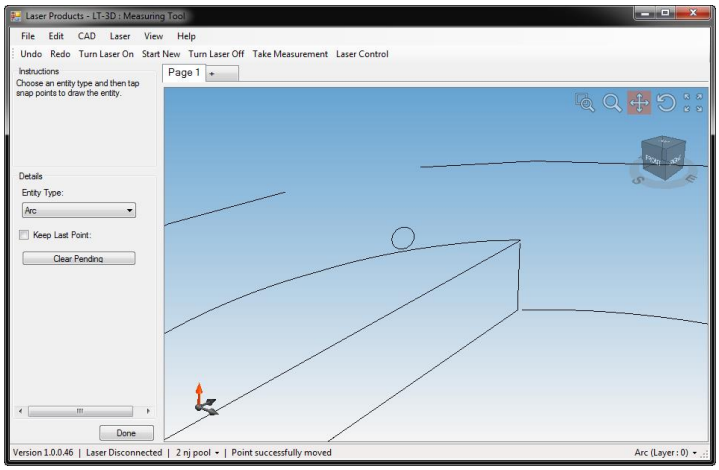
3. Click on the end point that you want it to connect to.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on line or curve close to the point to move, then click on the new point
Page 1
Details
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

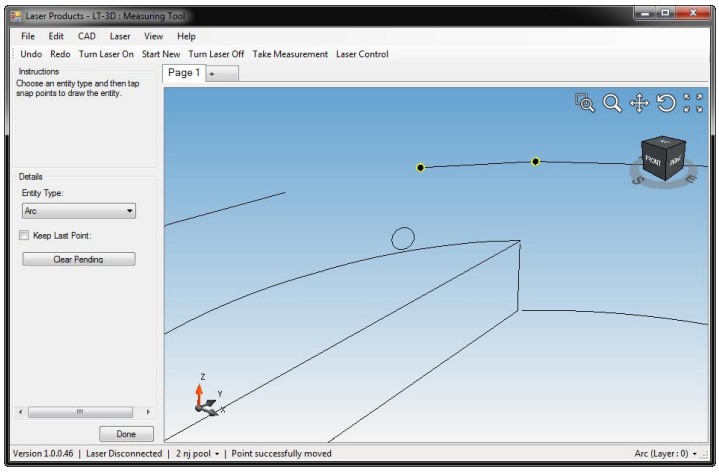
4.9 Draw Entity

Use existing points to draw a line, arc or circle. To draw and entity:

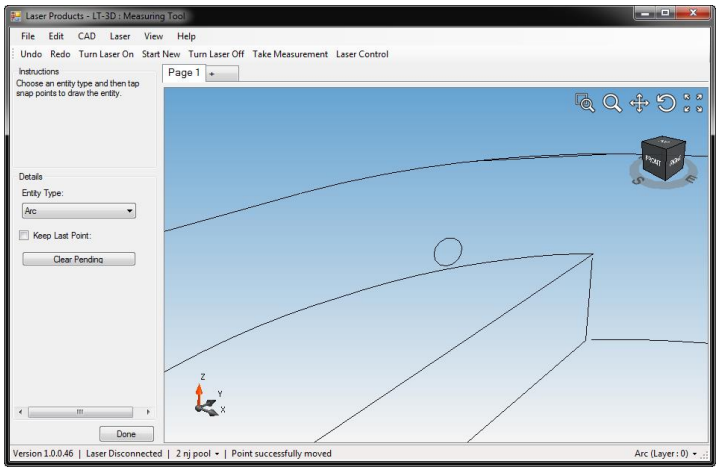
1. Click **CAD** / **Draw Entity**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose an entity type and then tap snap points to draw the entity.
Page 1
Details
Entity Type:
Arc
Keep Last Point:
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

2. Choose the *Entity Type* **Line** (two points), **Arc** (three points) or **Circle** (three points).


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose an entity type and then tap snap points to draw the entity.
Page 1
Details
Entity Type:
Arc
Keep Last Point:
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

3. Click on two points to draw a line, or 3 points to draw an arc or circle.

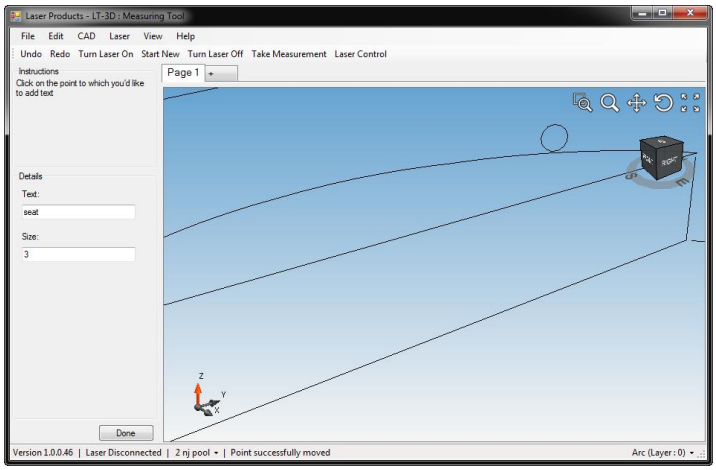

Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose an entity type and then tap snap points to draw the entity.
Page 1
Details
Entity Type:
Arc
Keep Last Point:
Clear Pending
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

After the last point is clicked, the entity will be created. If *Keep Last Point* is checked, the last point will be reselected for the next entity to create.

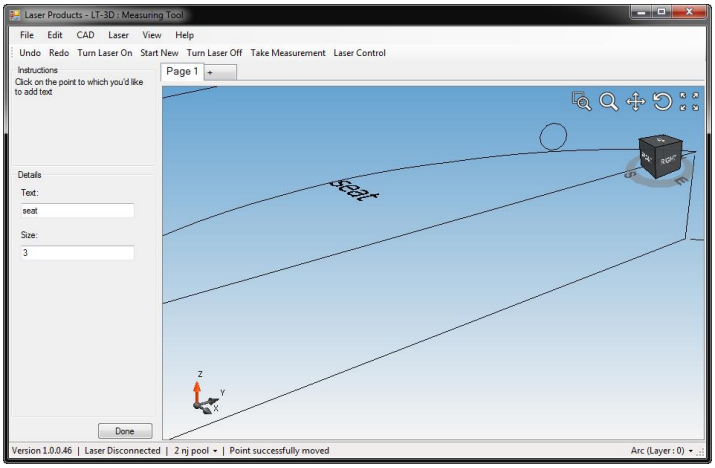
4.10 Add Text

Add text to a point. To add text:

1. Click **CAD** / **Add Text**.
2. Type the text and choose the *Size*.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on the point to which you'd like to add text
Page 1
Details
Text:
seat
Size:
3
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

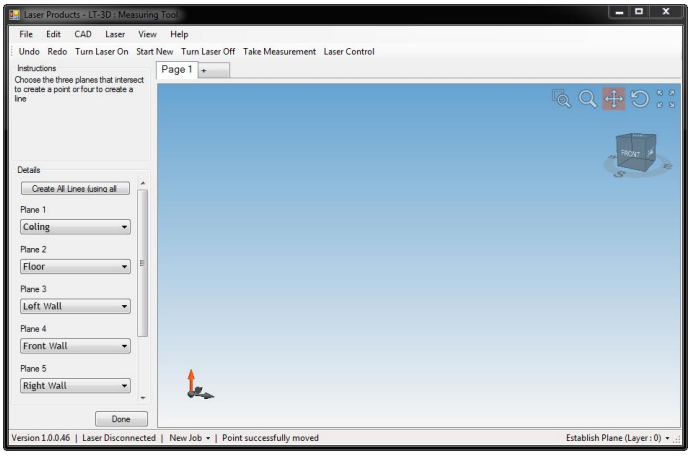
3. Click on a point to add the text.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click on the point to which you'd like to add text
Page 1
Details
Text:
seat
Size:
3
seat
Done
Version 1.0.0.46 | Laser Disconnected | 2 nj pool | Point successfully moved
Arc (Layer : 0)

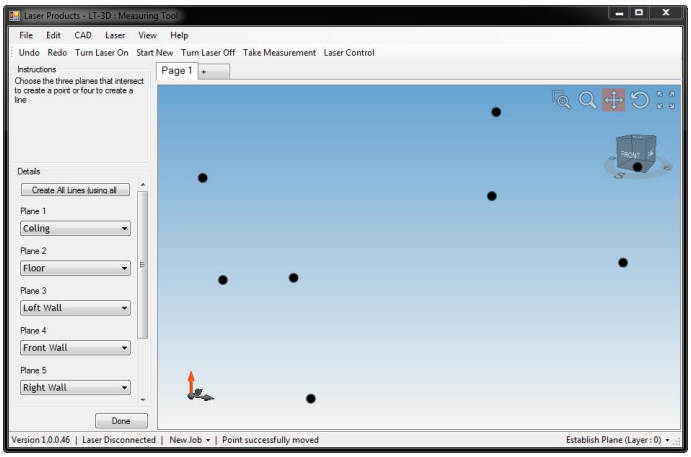
4.11 Intersect Plane

Allows points and lines to be created based on the intersection of planes previously established. In the following example we first went into *Set Plane* and created 6 planes measuring 3 points for each plane. Those planes were the back wall, front wall, right wall, left wall, ceiling, and floor. Using those 6 planes an outline of the room can be created.

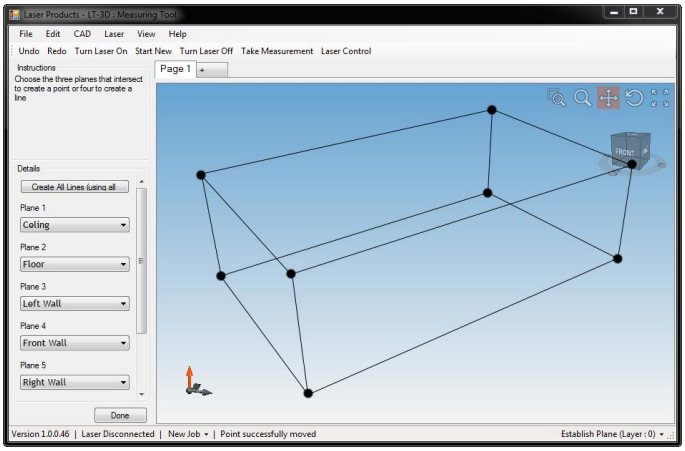
1. Click **CAD** / **Intersect Plane**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose the three planes that intersect to create a point or four to create a line
Page 1
Details
Create All Lines (using all
Plane 1
Ceiling
Plane 2
Floor
Plane 3
Left Wall
Plane 4
Front Wall
Plane 5
Right Wall
Done
Version 1.0.0.46 | Laser Disconnected | New Job | Point successfully moved
Establish Plane (Layer : 0)

2. Select all planes from the drop downs.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose the three planes that intersect to create a point or four to create a line
Page 1
Details
Create All Lines (using all
Plane 1
Ceiling
Plane 2
Floor
Plane 3
Left Wall
Plane 4
Front Wall
Plane 5
Right Wall
Done
Version 1.0.0.46 | Laser Disconnected | New Job | Point successfully moved
Establish Plane (Layer : 0)

3. Click **Create Points**.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose the three planes that intersect to create a point or four to create a line
Page 1
Details
Create All Lines (using all
Plane 1
Ceiling
Plane 2
Floor
Plane 3
Left Wall
Plane 4
Front Wall
Plane 5
Right Wall
Done
Version 1.0.0.46 | Laser Disconnected | New Job | Point successfully moved
Establish Plane (Layer : 0)

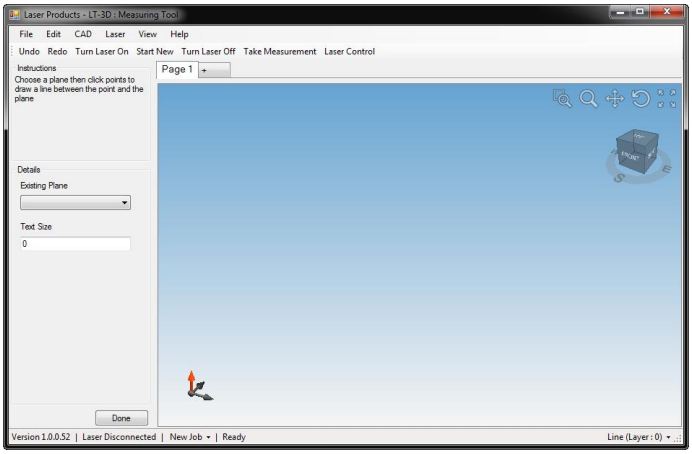
4. Click **Create Lines**.

4.12 Connect Point to Plane

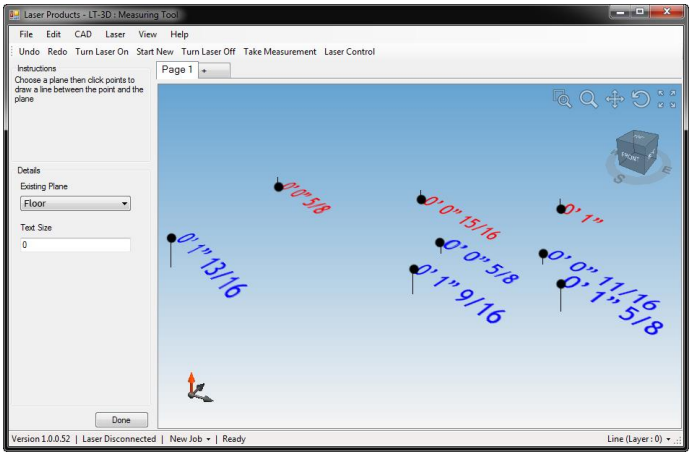
Create points or lines based on the intersection point to a plane to measure the distance.

In the following example a horizontal plane (1 point) is established along the wall and several points are taken along the floor to determine the high and low points of the flooring.

1. Click **CAD** / **Connect Point to Plane**.
2. Choose the *Existing Plane*.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose a plane then click points to draw a line between the point and the plane
Page 1
Details
Existing Plane
Text Size
0
Done
Version 1.0.0.52 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

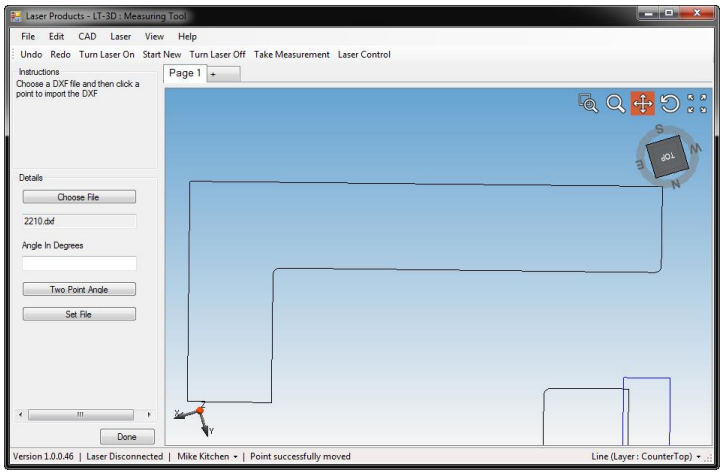
3. Click on a point to see its elevation in relation to the plane.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose a plane then click points to draw a line between the point and the plane
Page 1
Details
Existing Plane
Floor
Text Size
0
Done
0' 0" 5/8
0' 0" 15/16
0' 1"
0' 1" 13/16
0' 0" 5/8
0' 0" 11/16
0' 1" 9/16
0' 1" 5/8
Version 1.0.0.52 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

4.13 Import DXF

Allows a DXF to be imported into the current drawing. Currently only lines, arcs, circles and points are supported. Blocks and Polylines are not supported as of yet.

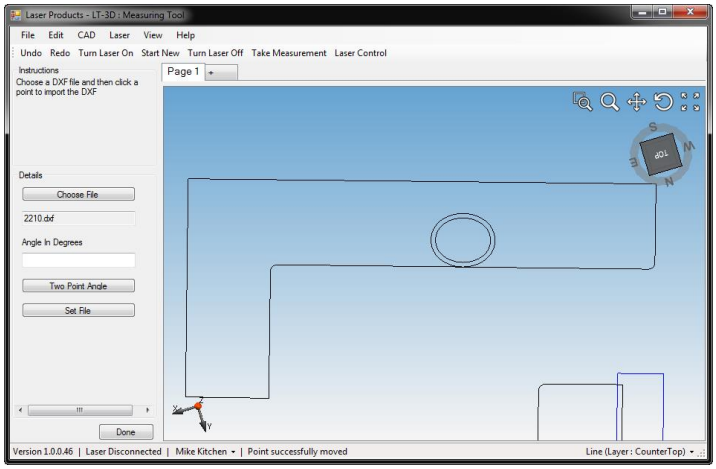
1. Click **CAD** / **Add DXF**.
2. Choose the DXF file by clicking the **Choose File** button and selecting the file.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose a DXF file and then click a point to import the DXF
Page 1
Details
Choose File
2210.dxf
Angle In Degrees
Two Point Angle
Set File
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

3. Click **Two Point Angle** if snapping to a counter top edge.

a. Click two points on that edge and an angle of that line will be filled in.
b. The first point clicked will highlight in yellow.

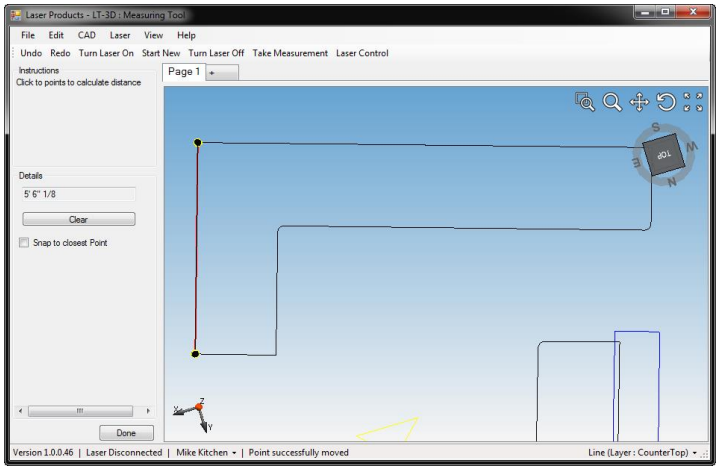
4. Click on the line where you want the DXF to be placed.
    a. The DXF will snap to the closest point (end, mid or intersection).


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Choose a DXF file and then click a point to import the DXF
Page 1
Details
Choose File
2210.dxf
Angle In Degrees
Two Point Angle
Set File
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

4.14 Distance

Calculate the distance between points on the drawing.

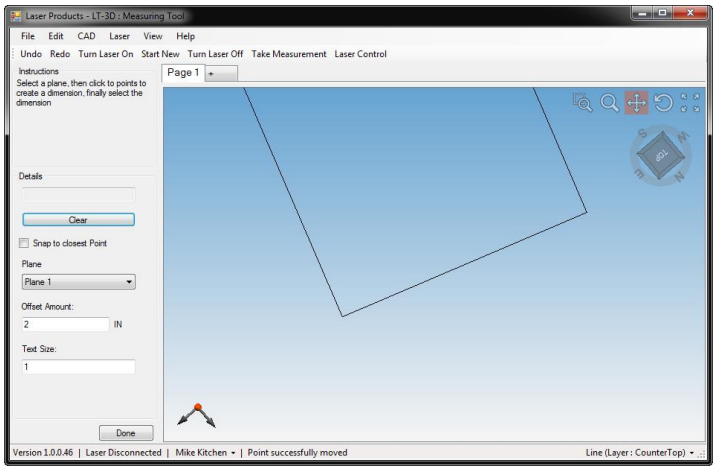
1. Click **CAD** / **Distance**.
2. Click on two points.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Click to points to calculate distance
Page 1
Details
5' 6" 1/8
Clear
Snap to closest Point
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

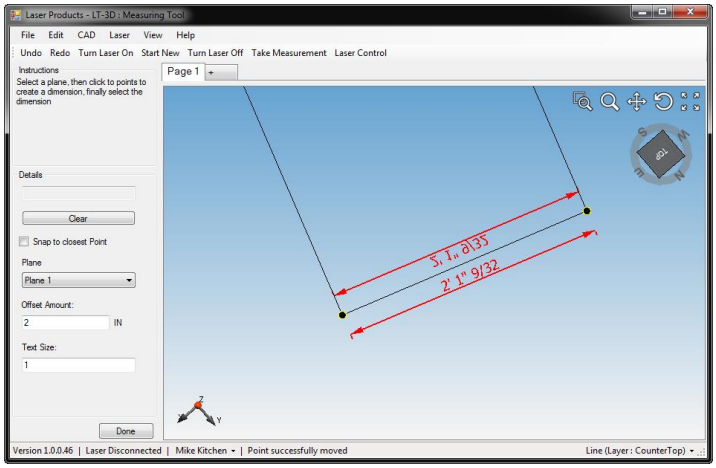
4.15 Dimension

Add a dimension to the current drawing along a previously established plane.

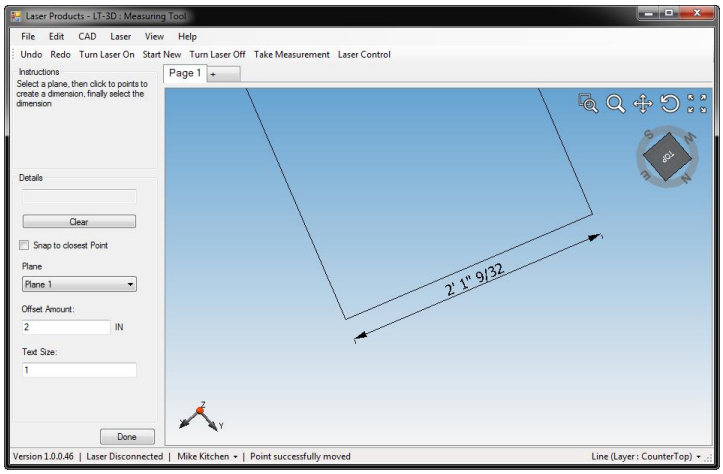
1. Click **CAD** / **Distance**.
2. Choose the *Plane*, *Offset Amount* and *Text Size*.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Select a plane, then click to points to create a dimension, finally select the dimension
Page 1
Details
Clear
Snap to closest Point
Plane
Plane 1
Offset Amount:
2
IN
Text Size:
1
Done
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

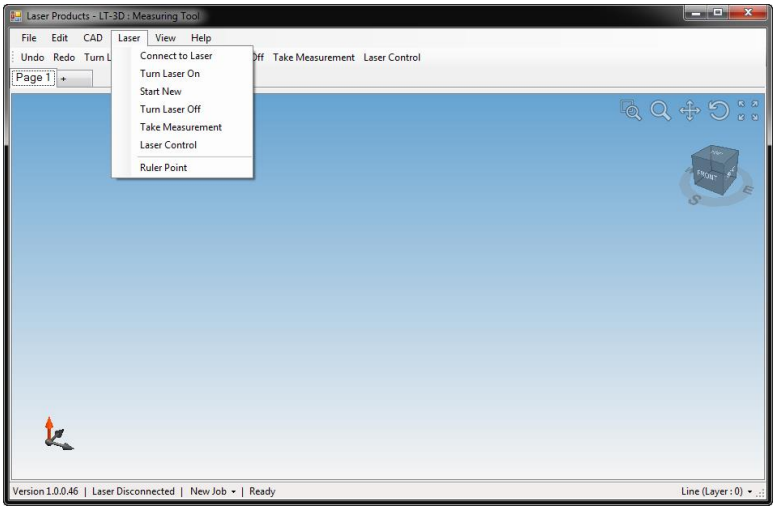
3. Click the two points to dimension.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Select a plane, then click to points to create a dimension, finally select the dimension
Page 1
Details
Clear
Snap to closest Point
Plane
Plane 1
Offset Amount:
2
IN
Text Size:
1
Done
2' 1" 9/32
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

4. Click on the dimension (between the two displayed) to add it.

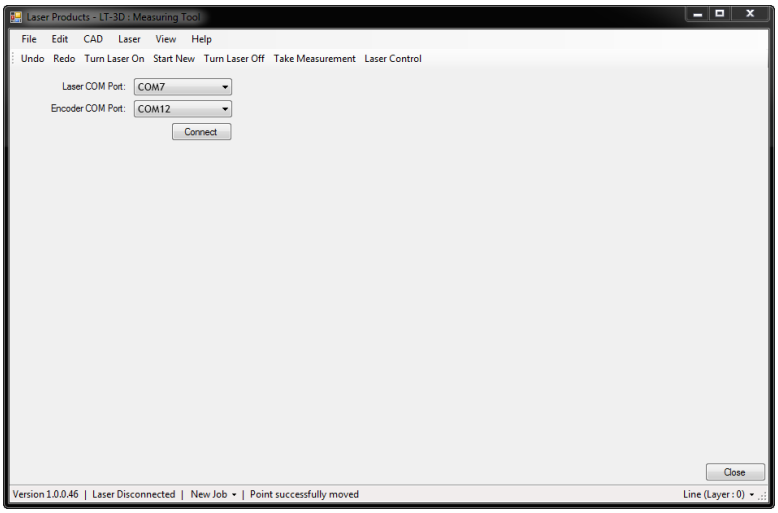

Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Select a plane, then click to points to create a dimension, finally select the dimension
Page 1
Details
Clear
Snap to closest Point
Plane
Plane 1
Offset Amount:
2
IN
Text Size:
1
Done
2' 1" 9/32
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

5.0 LASER MENU

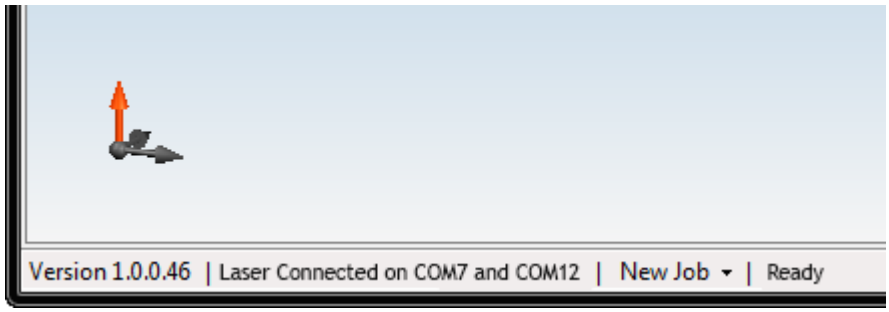


5.1 Connect to Laser

Establish a connection to selected laser type chosen in the *Options* menu.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Laser COM Port: COM7
Encoder COM Port: COM12
Connect
Close
Version 1.0.0.46 | Laser Disconnected | New Job | Point successfully moved
Line (Layer : 0)

When the *Connect to Laser* button is clicked and a connection is successfully established, the status bar at the bottom will indicate the connection status.



5.2 Turn Laser On

Turns the laser beam on.

5.3 Start New Line

Clears any pending points and turns the laser beam on.

5.4 Turn Laser Off

Turns the laser beam off.

5.5 Take Measurement

Captures a measurement from the laser.

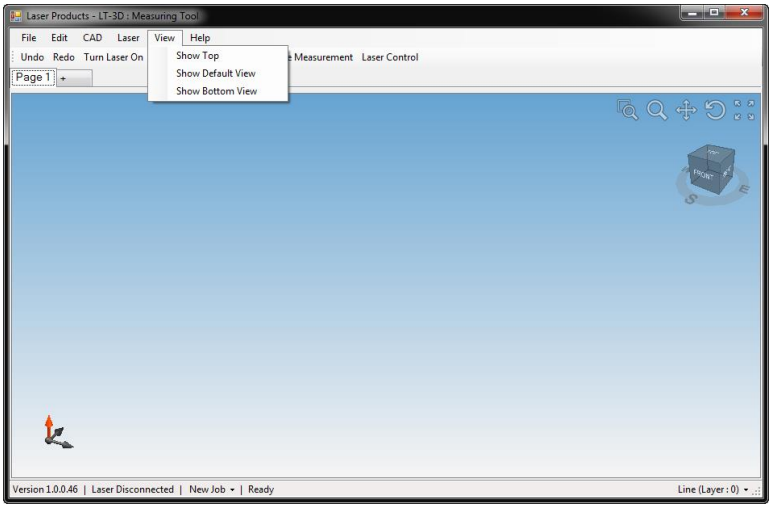
5.6 Laser Control

Pops up a small opaque control that makes it easier to **Turn Laser On**, **Start New Line**, **Turn Laser Off** and **Take Measurement**.

5.7 Ruler Point

Allows a single unseen point to be measured using a well-known (supplied by Laser Products Industries) ruler that the user collects two points from.

6.0 VIEW MENU



6.1 Show Top

Changes the current view to a top down view.

6.2 Show Default View

Changes the current view to an isometric view.

6.3 Show Bottom

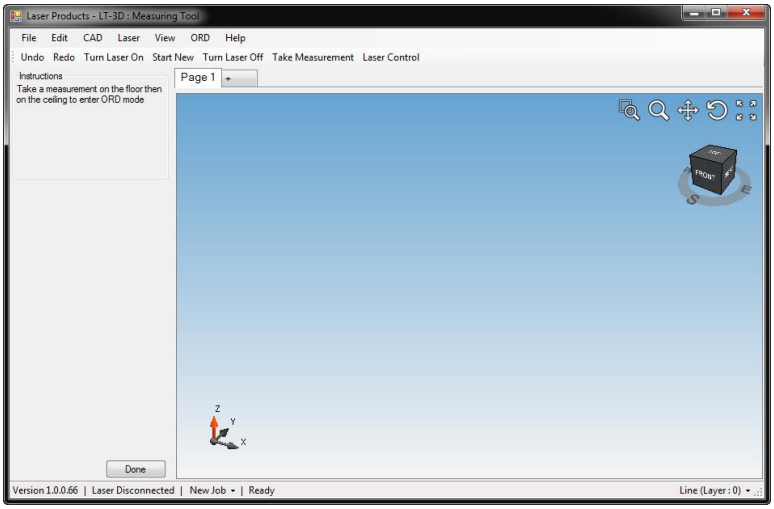
Changes the current view to a bottom up view.

7.0 ORD MENU

ORD mode provides a structured set of flows to quickly template a set of walls that allows for export to the in the Cabinet Vision ORD format. ORD mode will not be available until Laser Products is contacted and an additional license key is provided to enable the features of ORD mode. Once enabled an additional menu will be available titled *ORD*.

7.1 Enter ORD Mode

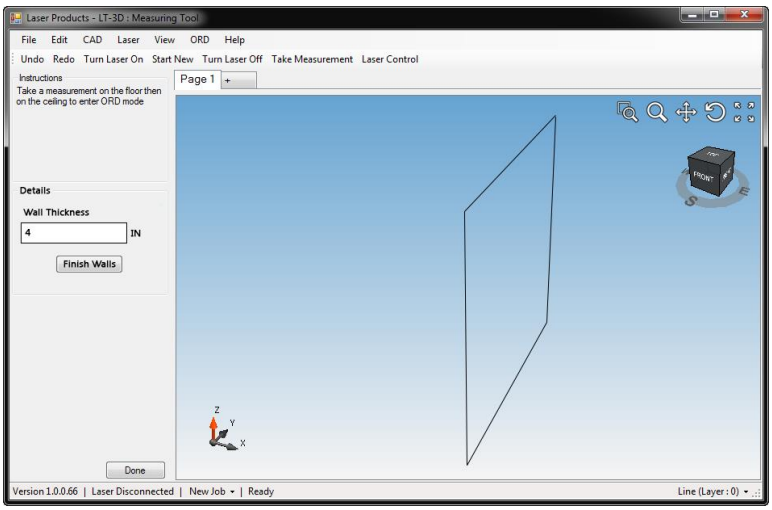
Captures the floor and ceiling. The first step in creating an ORD drawing is establishing the floor and ceiling. This will let the application know how tall walls need to be. After clicking **Enter ORD Mode** turn the laser and measure a point on the floor and then a point on the ceiling. Enter ORD Mode will be exited indicating that this operation completed successfully.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

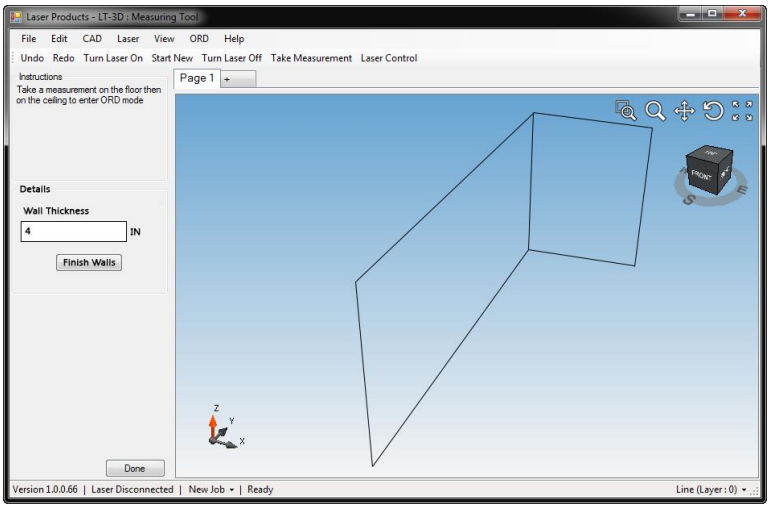
7.2 Add Walls

Allows walls to be added to the drawing. Requires *Enter ORD Mode* to be completed successfully. This must be done clockwise or the Cabinet Vision software will not recognize the relationship between walls.

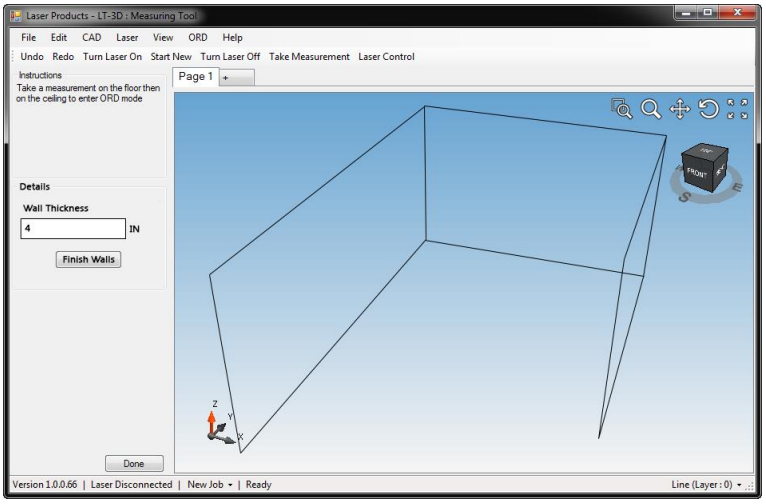
1. Indicate the thickness of the wall
2. Measure two points on the wall. While looking directly at the wall the first point measured will be on the left. Once two points are measure a wireframe of that wall will be shown.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Wall Thickness
4
IN
Finish Walls
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

3. Next move the laser to the second wall and again measure a point on the left then the right.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Wall Thickness
4
IN
Finish Walls
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

4. Repeat for all the connected walls

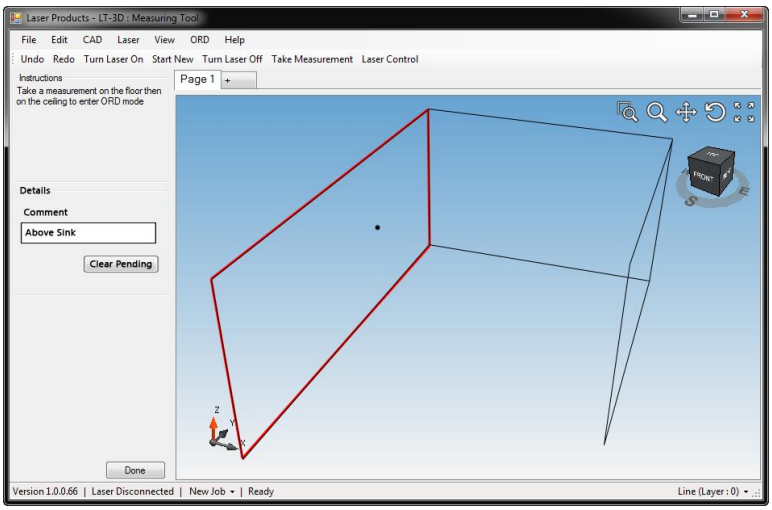

Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Wall Thickness
4
IN
Finish Walls
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

If the last wall draw intersects with the first wall draw press the Finish Walls button and the First and Last wall will automatically be joined within the application boxing off the room.

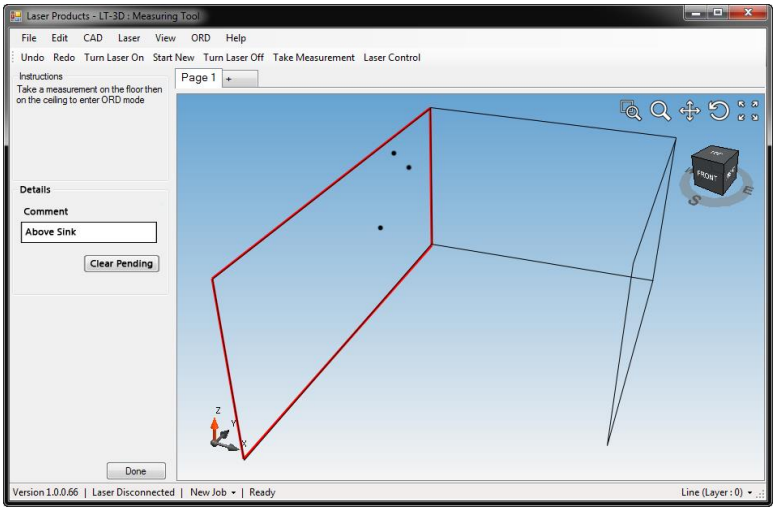
7.3 Add Windows

Allows windows to be added to a wall. Requires *Add Walls* to be completed successfully.

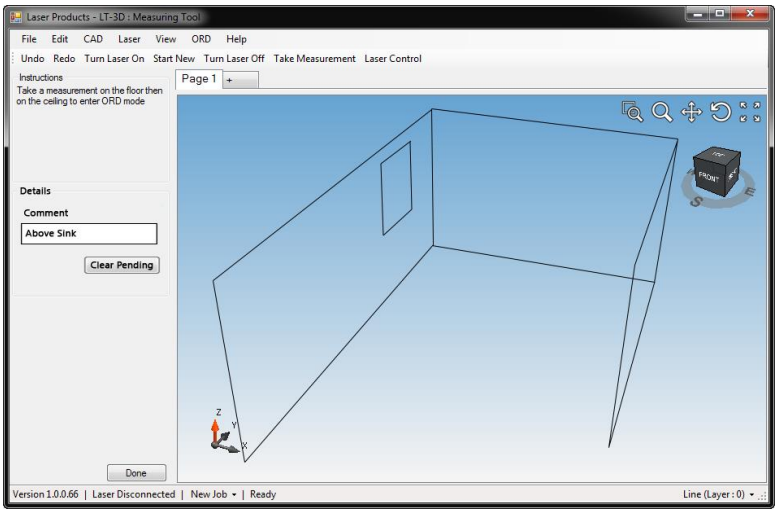
1. Click the line representing the floor or the line representing the ceiling of the wall to add the window to.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Comment
Above Sink
Clear Pending
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

2. Measure the furthest left point


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Comment
Above Sink
Clear Pending
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

3. Measure the top most point and the furthest right point.

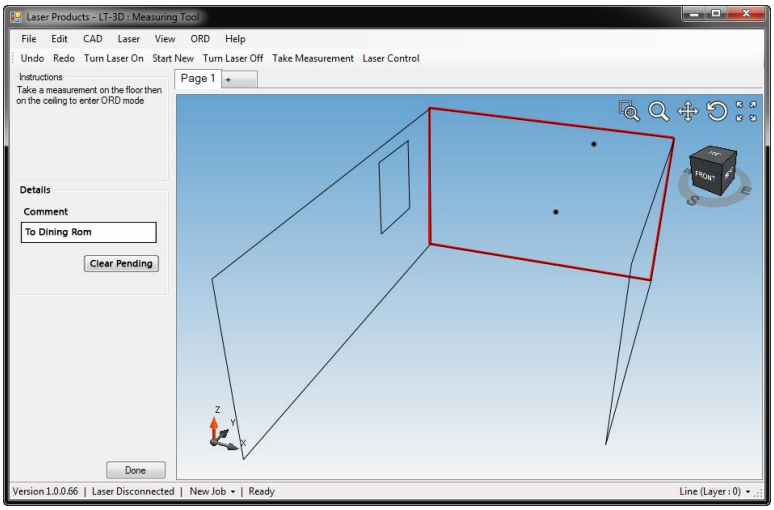

Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Comment
Above Sink
Clear Pending
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

4. Measure the bottom most point. When the bottom point is taken a window will be drawn based on the measured points.

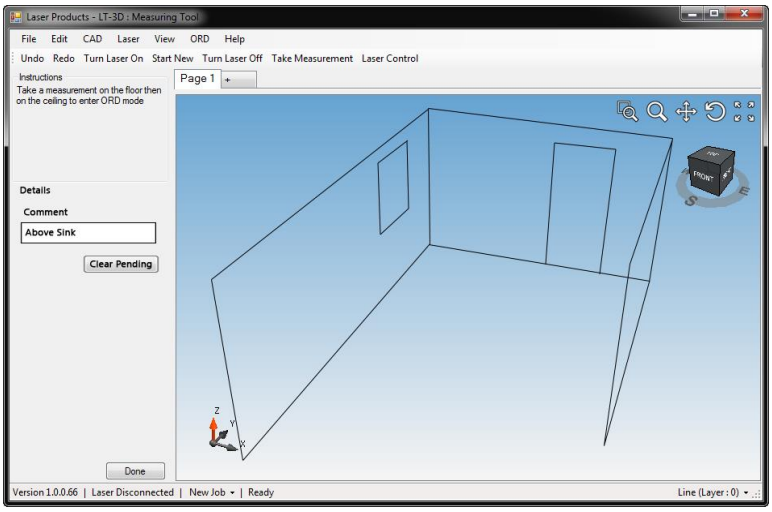
7.4 Add Doors

Allows doors to be added to a wall. Requires *Add Walls* to be completed successfully.

1. Click the line representing the floor or the line representing the ceiling of the wall to add the window to.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Comment
To Dining Rom
Clear Pending
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

2. Measure the furthest left point, top most point.

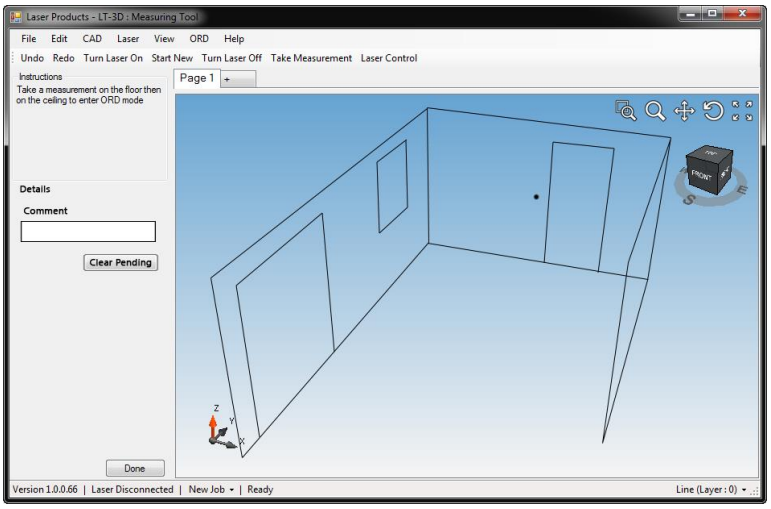

Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Comment
Above Sink
Clear Pending
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

3. Measure the furthest right point.

7.5 Add Power Outlet / Phone Line / Power Switch / Pipe Line

The Add Power Outlet, Add Phone Line, Add Power Switch, Add Pipe Line allow structural elements to be located on the drawing and transferred to Cabinet Vision. Requires *Add Walls* to be completed successfully. These operations all work in the exact same manner.

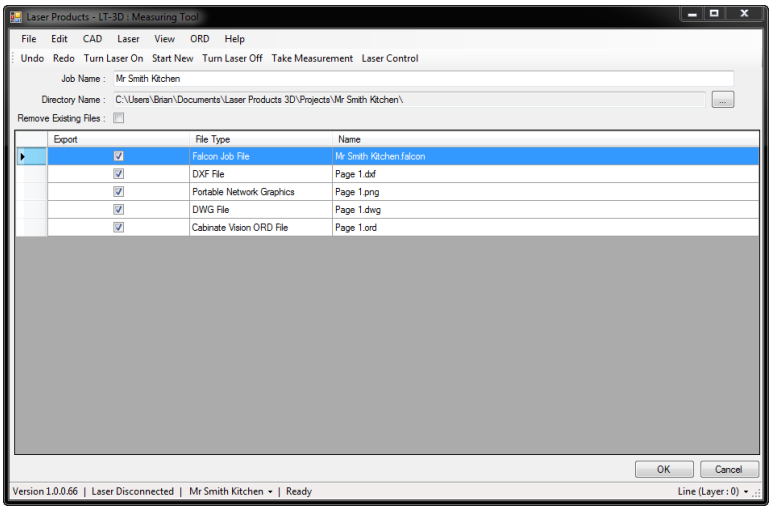
1. Click the floor or ceiling line on the wall that contains the structural element.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Instructions
Take a measurement on the floor then on the ceiling to enter ORD mode
Page 1
Details
Comment
Clear Pending
Done
Version 1.0.0.66 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

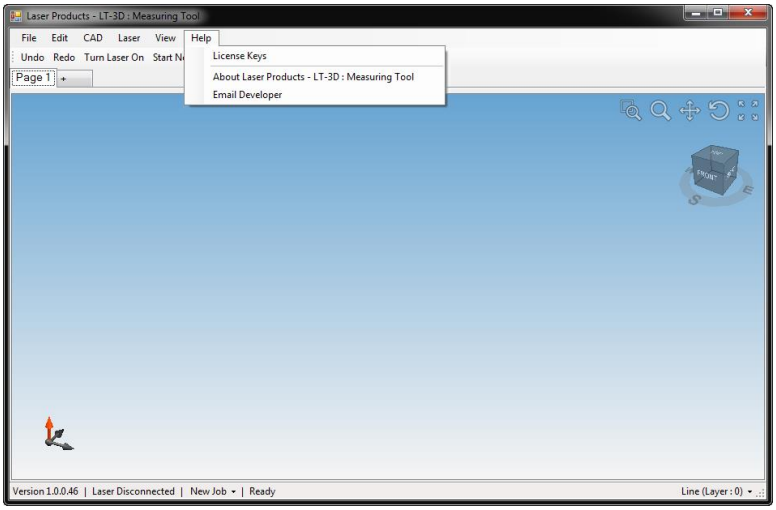
2. Measure the point indicating the middle of that structural element. The structural element will be shown on the drawing as a single point. In the above example a power outlet was added just to left of the door.

7.6 Saving ORD Files

After entering ORD mode and adding walls, doors, windows and structural elements an additional file will be shown when saving a Job. The file type will be Cabinet Vision ORD File and the Name will be <Page>.ord. This file can then be opened in the Cabinet Vision application.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View ORD Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Job Name : Mr Smith Kitchen
Directory Name : C:\Users\Brian\Documents\Laser Products 3D\Projects\Mr Smith Kitchen\
Remove Existing Files :
Export File Type Name
Falcon Job File Mr Smith Kitchen.falcon
DXF File Page 1.dxf
Portable Network Graphics Page 1.png
DWG File Page 1.dwg
Cabinate Vision ORD File Page 1.ord
OK Cancel
Version 1.0.0.66 | Laser Disconnected | Mr Smith Kitchen | Ready
Line (Layer : 0)

8.0 HELP MENU


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On
License Keys
About Laser Products - LT-3D : Measuring Tool
Email Developer
Page 1
Version 1.0.0.46 | Laser Disconnected | New Job | Ready
Line (Layer : 0)

8.1 License Keys

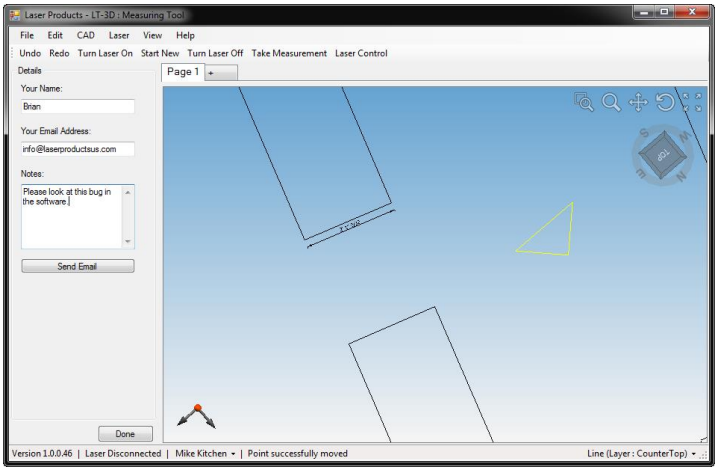
Set license keys within the application. When the application installs, only the Help menu is available. You will open the Help menu and email the Registration Key to us at info@laserproductsus.com. We will reply back with the License Key that will unlock the software.

8.2 About

Displays information about the application.

8.3 Email Developer

Sends the developer an email with a screen shot of the application and any notes that the user would like to provide, along with additional debugging information.


Laser Products - LT-3D : Measuring Tool
File Edit CAD Laser View Help
Undo Redo Turn Laser On Start New Turn Laser Off Take Measurement Laser Control
Details
Your Name:
Brian
Your Email Address:
info@laserproductsus.com
Notes:
Please look at this bug in the software.
Send Email
Done
Page 1
Version 1.0.0.46 | Laser Disconnected | Mike Kitchen | Point successfully moved
Line (Layer : CounterTop)

9.0 GENERAL INFORMATION

9.1 Warranty Information

We offer a 1 year warranty on the LT-2D3D Laser Templator from the date of purchase. After the first year, you have the option of renewing your warranty for $500.00. The original and extended warranty includes the following:

- Extended warranty on the LT-2D3D unit with the exception of the tablet and misuse/abuse of the laser.
- Laser Products will provide a loaner LT-2D3D and/or tablet computer should your unit need to be sent in for repair. All repair costs on the tablet are the responsibility of the owner.
- Free upgrades to software and minor mechanical updates.
- Free target package. Each year Laser Products will send a complete target package if requested.
- Free yearly check-up. This consists of a thorough inspection of the unit including cleaning the lenses, testing the batteries, inspecting for worn or damaged components, etc. (Loaner units are not included as part of this service)
- Discounted in house training at Laser Products. This entitles you to one day of training each year at the Laser Products office in Romeoville, IL at half price. This is in addition to the initial training included with the purchase of a new LT-2D3D.

9.2 Laser Safety Guidelines

These guidelines are for your own protection and that of others around you. Lasers have a unique set of dangers not present with other equipment common at work or at home.

- Like most laser point devices, it is important to exercise caution with operating this device.
- Never look into the beam of this or any other laser. This also includes pointing it at others around you.
- Always turn off the laser beam when it is not being used to avoid accidental eye exposure.
- When adjusting or aligning a laser, beware of reflections from all surfaces.
- Never randomly aim a laser at other people. Although this laser is low power, direct eye contact should always be avoided. This is a tool just like any other power tool on a job site and should be treated that way.
- Instruct anyone else with you as to the hazards of laser light and make sure they understand all of these guidelines. Those with you may actually be in MORE danger because you will know what to expect and what to avoid unlike them.
- This product conforms to IEC Regulations

9.3 Using the Computer for Other Programs

The computer that comes with this laser runs a full installation of Windows and can run most Windows compatible programs. However, installing any programs other than those that are installed at the time you receive it can alter or hinder operations and functionality. We strongly suggest you only use this tablet for templating and other related functions.

9.4 Windows 8

Microsoft changed the user interface of Windows 8 from the previous version of Windows 7. We have installed a program called Classic Shell to every tablet that boots the computer into the legacy Desktop like all previous versions of Windows has done. We have also replaced the Start Menu which was removed by Microsoft because we felt that having a consistent user interface across all versions of Windows on every tablet makes it easier for customers to transition to new hardware as well as support it. If you would like more information on Windows 8 and how to navigate the new User interface please visit the following page for an overview: *http://windows.microsoft.com/en-US/windows-8/basics#1TC=t1*

9.5 Cleaning / General Care and Storage

The LT-2D3D is a precision measurement tool and needs to be treated with care. Please follow the guidelines below.

- **Make** sure the lens of the laser is clean before starting every job. Finger prints and smudges can affect accuracy of the laser.
- Handle the tablet PC with care. This is a computer and like all computers, if they are treated roughly, the internal components or outside casing can be damaged.
    - As stated above in the warranty, misuse / abuse is not covered in the warranty which include but are not limited to:
        - Cracked / broken screens.
        - Dropping any part of the device leading to cracked outside housing or damaged internal components.

9.6 LT-2D3D Laser Templator Specifications

The LT-2D3D software was designed to be used on any current Windows computer but will run on both Windows 7 and 8. We have heard of customers using it on Windows Server 2000, 2003 and 2008 however we have not tested this nor do we support it. If you choose to install the software on a server, we will offer no support.

9.7 Training Videos

With the purchase of every LT-2D3D Laser Templator, training videos are included. Please watch those videos to learn how to use this digital templating system properly. This user manual is meant to be a quick reference and used in conjunction with the videos but is not meant to replace watching those training videos. They can be viewed on our website as well at http://laserproductsus.com/videos/

10.0 TECHNICAL INFORMATION

10.1 Accuracy and Distance Specifications

- Accuracy of +/- 1/16" up to 50 feet on industry standard surfaces
- Capable of measuring up to 200 feet to industry standard surfaces
- Capable of measuring up to 600 feet using an appropriate target under ideal conditions

10.2 Storage and Operating Temperatures

- Storage: -4 °F to 113°F (-20°C to 45°C) (LT-2D3D Laser Templator)
- Operation: 32°F to 113°F (0°C to 45°C) (LT-2D3D Laser Templator)
- Storage: -4 °F to 95°F (-20°C to 45°C) (Tablet PC)
- Operation: 32°F to 95°F (0°C to 45°C) (Tablet PC)
- Minimum temperature required to charge the batteries: 32°F (0°C)

10.3 Laser Specifications

- 635nm
- <1mW
- Class 2 Laser Product
- Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice no. 50, dated May 2001, with IEC 60825-1 (2001) and EN 60825-1.

11.0 CONTACT INFORMATION

Laser Products Industries
1344 Enterprise Dr.
Romeoville, IL 60446 USA

P: 630-679-1300
F: 630-679-1356
http://laserproductsus.com
info@laserproductsus.com

Countertop, Glass Industry
Matt Thomson – 630-390-0439 – North East – (CT, IN, KY, MA, MD, ME, MI, NH, NJ, NY, OH, PA, RI, VT, WV)
Matt Drnec – South East – (AL, SC, FL, AR, GA, LA, MS, NC, TN)
JT Hoffmann – 630-679-1300 – Mid West – (IL, IA, KS, MN, MO, ND, NE, OK, SD, TX, WI)
Jeff Larson – 303-378-3839 – West – (AZ, CA, CO, ID, MT, NV, OR, UT, WA, WY)
Aatif Markar – 647-221-0467 – Canada and Middle East
Carl Sharkey – +44 (0) 1274 412597 – Europe/Russia

Industrial Fabric Industry
Drew Thornton – 256-595-9697 – Entire United States

12.0 REGISTRATION

In order to service your laser, we need to make sure we have all of your company information. Please take a moment to fill out the information below so that we can better understand your company and serve your needs. This can be faxed (630-679-1356), emailed (info@laserproducstus.com) or mailed to us (1344 Enterprise Dr., Romeoville, IL 60446)

General Information

Company Name: _____

Owner: _____

Templator's Name(s): _____

Address: _____

City: _____ State: ____ Zip: _____

Phone: _____ Fax: _____

Website: _____

Email: _____

LT-55 XL/LT-2D3D Serial Number: _____

Fabrication Information (Please circle all that apply)
Production Information: Automated Plant Fab Center CNC Router CNC JetSaw CNC Saw CNC WaterJet Bridge Saw Outsource Fabrication Training Facility

Kitchens/Jobs Per Week: ____

CAD Experience: Beginner Intermediate Advanced

Associations you are a member of: IFAI AWFS ISFA MIA NKBA SFA WFCA
Other: _____

Other Digital Templating Products Used: _____